THE ARCHITECT & BUILDING NEWS

7 JUNE 1956 · VOL 209 · NO. 23 · ONE SHILLING WEEKLY

- · GATEWAY HOUSE. NEAR ST. PAUL'S
- · OFFICE BLOCK, WREXHAM
- CURRENT MARKET PRICES AND MEASURED RATES

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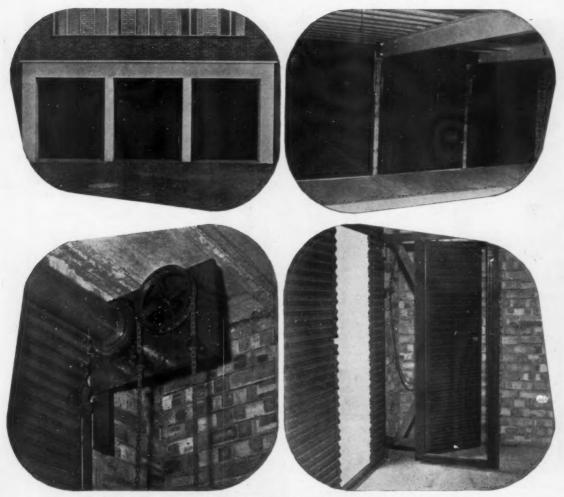
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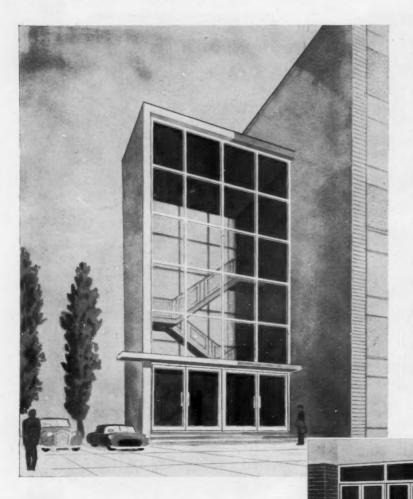
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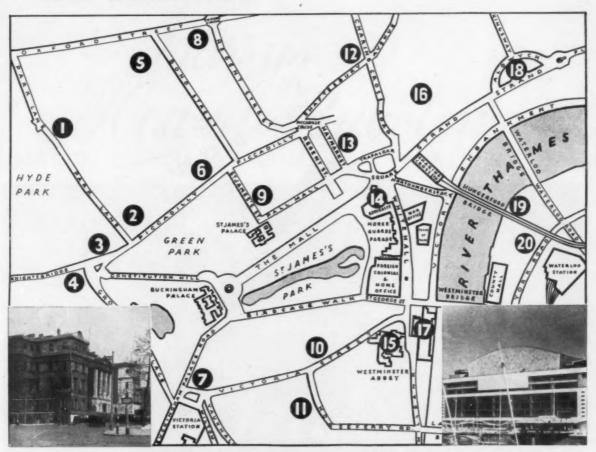
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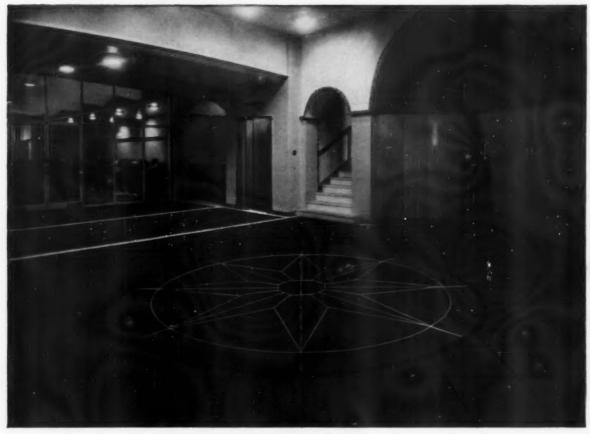
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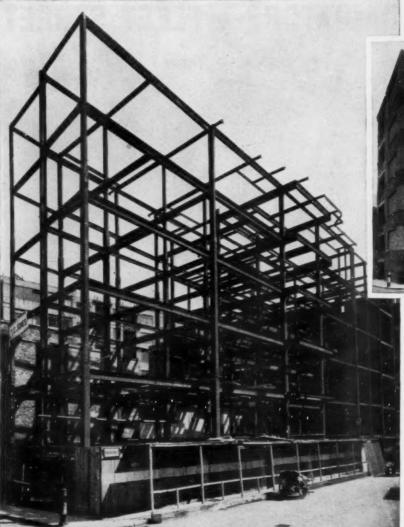


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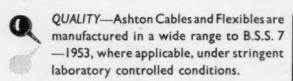
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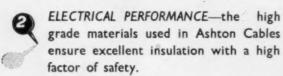
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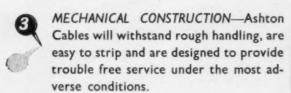


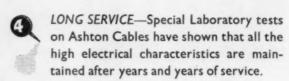
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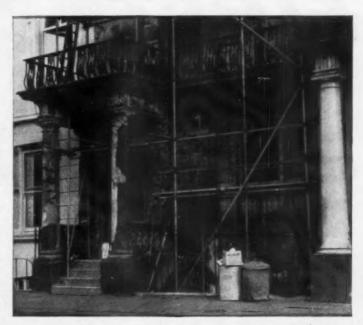
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CASE HISTORY No. 15

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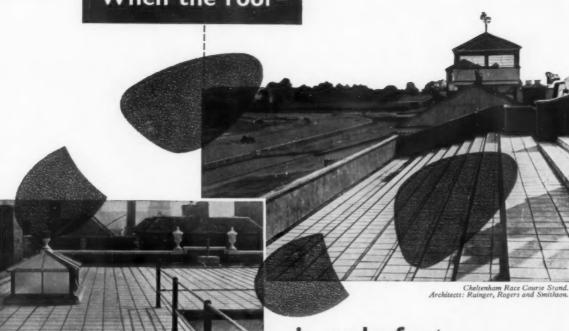
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Architects: Messrs. Yates, Cook and Darbyshire

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TGA CIBB



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OWNERS: Whitefield U.D.C.

CONTRACTOR: Council Building Department (painters)



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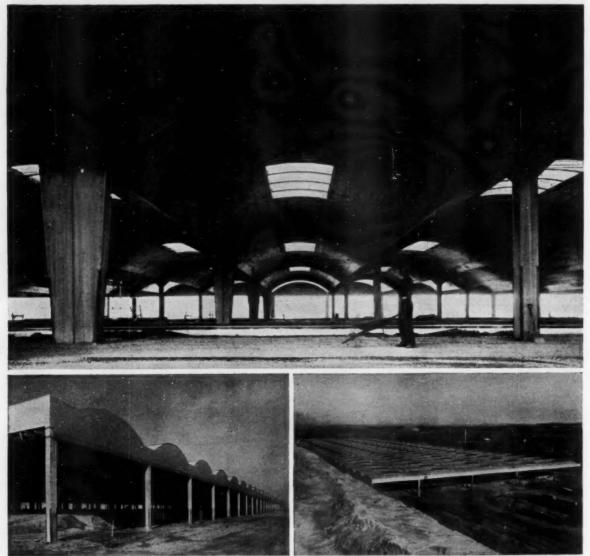
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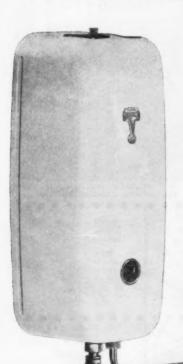
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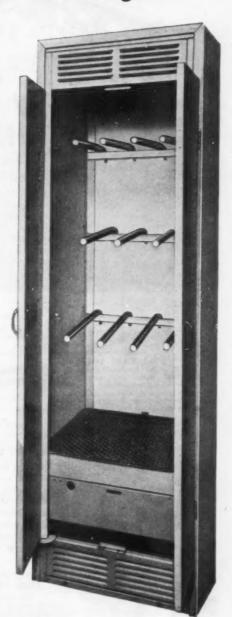
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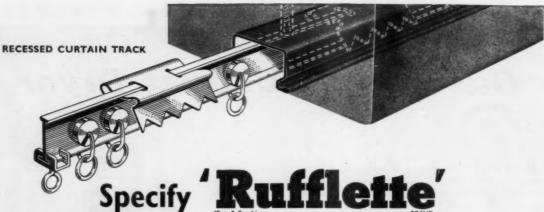
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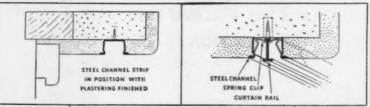
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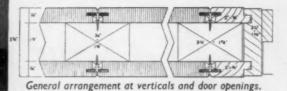
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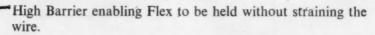
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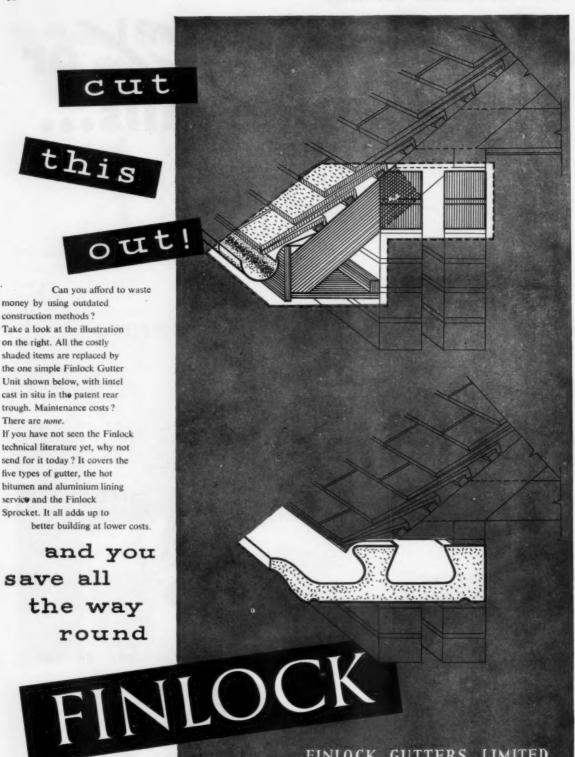
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THE PRESIDENT'S ADDRESS

THE Conference Programme always dignifies these desultory remarks which are expected from the President at the Inaugural Meeting as an "Address". I assure you it will be nothing of the sort as I know you are anxious to get on with the real business of the meeting.

I must however express on your behalf and on my own our grateful thanks to the Lord Mayor for the warm welcome he would have given us and to say how delighted we all are to be back in Norwich after an absence of 26 years. No city could be more suitable for a conference of architects as there is so much of interest to see both in the city itself and in the surrounding countryside. The only doubt we had when considering the kind invitation of the Norfolk and Norwich Association to have the Conference in Norwich once again was whether there would be enough beds for all, having regard to the greatly increased number of members who attend our Annual Conference today as compared with 26 years ago. However that problem has been solved and it is not for me to discuss how; who will be sleeping with whom is a matter I am not going to enquire into!

We are extremely indebted to the Norfolk and Norwich Association for all the arrangements they have made. The Secretary will know better than any of us from his experience over the years what a vast amount of work is entailed in making these preparations. I understand that the local committee which is responsible sits at regular intervals for nearly twelve months. I think our special thanks are due to Mr. Humphrey Boardman, the President of the Norfolk and Norwich Association, who has acted as Chairman of the local Executive Committee and also Mr. Tomkins, their hard working Honorary Secretary.

And then I would say how very much we appreciate the hospitality the Lord Mayor and the City Corporation are offering to us in the shape of the Civic Reception which is being held this evening at the Castle; we are all looking forward to it very much.

We are also most grateful to the Lord Bishop for

kindly allowing us to have our Garden Party this afternoon in the Palace garden and also to the Dean and Chapter for so kindly combining Evensong with a special service for the members of the Conference. This is a feature which I should like to include in every year's Conference but it is not often that we have the privilege of meeting in a city which has such a lovely Cathedral as Norwich.

The serious business of the meeting is the presentation of the papers by three experts on "Architectural Economics" which those of you who have read the papers will agree is not nearly so dull as the title indicates. I have little doubt that there will be a very full discussion after the synopses of the papers have been presented by the three lecturers but just in case there should be a complete silence we have, by arrangement with the speakers, prevailed upon two or three people with special knowledge of the subject to initiate the discussion. I cannot but think that once it is started it will run on for its full course until the completion of the meeting tomorrow morning.

Before I make way for the speakers I should perhaps say one word about the follow-up of the discussions which we have at these Conferences. Arising out of the Torquay Conference two years ago when we had the masterly exposition on building materials and techniques by Messrs. Allen and Mills liaison has been made, and will go on being made, with some of the manufacturers of building materials which I hope and am sure will produce useful results. Following on the very wide range of discussion last year arising out of the paper by Sir Thomas Bennett and Mr. Woodbine-Parish committees have been considering all the various points which were brought up both in the papers and in the discussion and I understand that the Council of the Royal Institute are being recommended by the Executive Committee to produce a report in the Journal saying how the various points have been dealt with and what action is being taken. Similarly we shall make certain that anything tangible arising out of the papers and discussion this year is not lost sight of; it will be followed up.

EVENTS AND COMMENTS ROYAL VISIT TO STOCKHOLM

GRENADIER GUARDS TERCENTENARY

Unable to attend the Press view of the exhibition at St. James's Palace, I went to the Private View, with the result that I saw more past and present members of the regiment than exhibits. Progress round the show was slow but inexorable and so far I have had no time to return to see the things I missed. You do not need to be military minded to enjoy this admirable lesson in English history. The exhibition has been very well and plainly done by students of the Royal College of Art under the guidance of Sir Hugh Casson. Considering the large number of exhibits and the comparatively small area available the designer of the layout Mr. Keith Townend has done very well in avoiding any sense of crowding. He has managed to incorporate one or two vistas between exhibits which, used in conjunction with open bays containing large features such as regimental colours, or a marble bust and a group of drums, serve to divide the groups of smaller exhibits into digestible sections.

It was good to see the architects' own Grenadier, Mr. H. S. Goodhart-Rendel evidently enjoying himself. The catalogue lists over three hundred items ranging from portraits of the regiment's twenty colonel's, to a group of life-sized figures dressed in the uniforms worn at different periods in the regiment's history. There are personal souvenirs, historic documents, arms, colours, silver paintings and prints in profusion. All this is seen against the splendid background of the principal rooms of St. James's Palace.

MEDICAL EXHUBERANCE AT THE A.A.

Dr. Stephen Taylor was the speaker at the last ordinary general meeting of the session at the A.A. last week. His subject was "Health Service Buildings other than Hospitals". Dr. Taylor is visiting research fellow of the Nuffield Provincial Hospitals Trust and works closely with Mr. Lewellyn Davies, the Trust's chief architect. He has very strong views on Health Centres believing that they should be domestic in scale and without pomp. One of his maxims is if the main entrance is for the use of doctors it is a bad plan, if it is for patients it is a good plan. Doctors, he says, should be humble-like architects. Dr. Taylor also has very strong views about architects and would like to have been one-had he not been a doctor. He hates large windows, particularly if they will not open. "Patients smell" he said, "so do we all." In addition to some very interesting remarks on building for group practice in old and new towns, Dr. Taylor gave a masterly review of the National Health Service. Most architects who have doctors as clients find them next to impossible. Dr. Taylor might prove an impossible client but he would be an amusing one.

When the Queen and the Duke of Edinburgh visit Stockholm this month, British Weeks will be held throughout Sweden. The Co.I.D. is co-operating with its Swedish counterpart the Svenska Slöjdforeningen in the staging of a display of British goods in a park in the centre of Stockholm. Some 200 items will be shown in showcases which will be lit up at night. I only hope that they will be better equipped against internal condensation than similar cases were at Hälsingborg last year. The exhibition will be open from 2-15 June and will later be staged at Gothenburg.

M.O.W. GUIDES TWO NEW

The season of guide books is here and even if you and I do not use them it is a pleasure to be able to welcome two delightful newcomers published for the Ministry of Works by H.M.S.O. The first on shiny art paper with a brilliant colour photograph on its cover deals in word, plan and picture with Hampton Court. It is just the right length for a person paying one visit and is at the same time an excellent souvenir for the tourist. The second on cartridge paper and decorated with line drawings by Eric Fraser, as well as photographs, tells the story of Kew Palace and, of course, the gardens. Both guides are well worth having and cost 1s. 6d. each.

TREE GRUBBERS ON WESTERN AVENUE

The main road approaches to London are at best nothing to write home about, but Western Avenue has some claim to be considered the best. Parts of it are as bad as parts of the Great West Road but both were planted with trees when they were made. Driving along the Park Royal stretch of Western Avenue some days ago I noticed that the trees on the south side had been brutally mutilated and uprooted apparently to enable a trench to be dug for some purpose. These trees were just beginning to screen the horrid architecture and although they were not very wonderful specimens it will take another 20 years to replace them. It would be interesting to know just why the trench could not have been put elsewhere. In many other countries, the trees, which were not large, would have been moved not murdered.

If the ultimate idea is to widen Western Avenue into a double track road so much the better, but even that would not excuse the stupid waste of twenty years growth.

THE BIRTHDAY HONOURS

Warm congratulations to all those architectural and near architectural characters named in the Birthday Honours List. I am particularly pleased about Robert Gooden who becomes a C.B.E. Hope Bagenal receives tardy recognition with an O.B.E. and Gilbert Ledward, Christopher Hussey and Jack Pritchard are similarly honoured. Mr. H. Connolly, the Essex County Architect, becomes a C.B.E., thus joining the quite considerable band of architects holding this honour. Professor Coldstream is to be knighted as is Mr. F. C. Hooper who is managing director of Schweppes and a member of the Council of the Building Centre. Mr. E. F. Muir, who recently succeeded Sir Harold Emmerson at the M.o.W., is another Knight.

AMERICAN HOUSE BUILDERS

A party of 40 members of the National Association of Housebuilders paid a flying visit to this country last week as part of a six weeks' tour of Europe. They were whipped in by friend Walton Onslow, P.R.O. of the National Housing Centre in Washington, which is sponsored by the N.A.H.B. The Building Centre entertained them to tea before a lightning American style tour of the exhibition. They expressed themselves mightily impressed with the range of timbers available, the quality and variety of our bricks, and the workmanship and reasonable price of our manufactured articles and in particular of gas cookers. They had never seen a gas pistol before nor sprayed asbestos insulation.

STRUCTURES

The current issue of "l'Architecture d'anjourd'heri" is devoted to structures of the type which I do not understand and which fill me with fear and misgiving. Most are of the sky-hook and pancake variety combining maximum excitement with, I suspect, minimum convenience, but all very wonderful to behold. The palm however goes to a charming picture of a 19th century design for a steel railway bridge spanning a rocky ravine through which a river flows. The bridge consists of a shallow box girder carried at its mid point on an inverted stepped church spire terminating on what appears to be a short cast iron corinthian column standing on a circular masonry base in the middle of the river. Each span of the bridge appears to be about 240ft and the depth of the main girder is about 10ft. The 'spire' tapers from 22ft to 2ft. I do not think that it was ever built.

THIS GLASS BUSINESS

Curtain walling of one sort or another being all the rage, I note that some expensive lessons are being learned. Within quite a short radius of this office there are several buildings where coloured glass in some form is being used for the panel in-filling. On one building a great many sheets have cracked right across. It would be interesting to know why. My guess is that insufficient allowance was made for the additional expansion of coloured glass. By this I mean that coloured glass in absorbing more heat than clear glass will expand more and therefore needs more room. I am glad that I shall not have to settle who is to pay for replacing the damaged panels. At the same time I hope that the designers of the other buildings will not be faced with the same trouble. It is a great pity that for the general good more publicity is not given to failures of materials.



The Dutch National Monument recently unveiled by Queen Juliana Amsterdam. Architect J. J. P. Oud. Sculptor: The late John Raedecker.



and their causes. I suppose the law of libel and the fear of red faces all round tends to restrict the free circulation of this type of information.

THE PROFESSOR WITH THE MELTING SMILE

Eileen Ascroft, writing in The Evening Standard, has chosen Sir William Holford as the best looking man in town and supports her claim with a photograph which gives the 'matinée idol' professor a crew cut and a clerical collar.

ABNER

Norwich Conference Report

THIS year's Norwich Conference will be remembered by many people as the one-when-it-was-fine-forthe-Garden-Party. Not since the Conference was held in Northern Ireland in 1951, has the weather been as kind as it was on Thursday's sun-drenched afternoon in the grounds of the Palace of the Bishop of Norwich.

We arrived on Wednesday evening about business closing time and so had to thread our way through the inevitable traffic hold-ups to be expected at that hour. Being a stranger to the City, I was surprised to find it was larger and more hilly than I had expected; and I was impressed by the smart turn-out of the local policemen on traffic duty. At our hotel reception we found a young parrot perched in a cage who fixed us with a suspicious stare for a moment or two and then burst into speech. During our stay he never failed to join in on any conversation within ear-shot and seemed to contribute as much to the good temper of the staff as he did to the obvious enjoyment of visitors.

The first evening's informal reception was one of the cheeriest I can remember. Our hosts, the Norfolk and Norwich Association of Architects, could have chosen no better setting for their hospitality than the classic and finely proportioned rooms of Thomas Ivory's 18th century Assembly House; and no doubt the profusion of well-arranged flowers owed something to the visit of the Duchess of Kent, who had been entertained there on the previous day.

Thursday's inaugural meeting started with a technical hitch; the Lord Mayor of Norwich had been imperfectly briefed by his staff at the City Hall and failed to attend to give his Address of Welcome. This was more or less taken as read and the President went on to make his inaugural speech which you can read on another page.

In next week's issue you will be able to read for yourselves the gist of the Conference Papers, and of the two days' discussion. On this morning, the three speakers summarised their paper and I thought Doctor Martin's summary was particularly interesting. He gave figures to show how millions of pounds had been saved by architects as a whole, by keeping the cost per school place down during the past 5 years, instead of allowing it to rise with the prices of materials and labour in the same period. And he explained by showing slides, the tremendous value of research work into the planning requirements for buildings in the National Programme such as Housing, Schools and Hospitals. The speakers chosen to open the discussion were both Quantity Surveyors. Mr. S. N. Rose from the Ministry of Education had some useful points to make about Elemental Bills of Quantity; but few people in the well-filled Stuart Hall could have heard him clearly. Mr. C. M. Nott, of the Hertfordshire County Council wanted the Quantity Surveyor to lead the building team in the matter of cost investigation.

I was not surprised to hear the Bishop of Norwich tell us at the Conference Dinner that 3-4 thousand people in a season enjoy as guests the Garden of the Bishop's Palace which has been the Palace's for 800 years. The lawns, the tall trees, the ruins of an early Palace Gate, the scale of open space to the nearby Cathedral make an ideal setting for the Garden Party which took place in the afternoon after the inaugural meeting. Following on after the garden party, it had been arranged to hold Evensong in the Cathedral specially for Conference members. The President read the Second Lesson. The Dean gave the Address and had some nice things to say about Basil Spence's design for Coventry Cathedral, but thought that many modern churches failed in their purpose and missed the quality of beauty. The service ended with the hymn "All Things Bright and Beautiful," sung to a chant I had not heard before; but rather liked after a few verses. We learnt later that it was the organist's choice; and his decision in these matters is final.

The same evening the Lord Mayor's Reception in Norwich Castle was an equally unforgettable occasion, and one when the entire museum and art gallery were thrown open to view. The wonders of the Coleman collection of John Crome and J. S. Cotman water colours and those of other painters of the Norwich School are no exaggeration. I would like to have had more time to study the exhibition: "East Anglican Buildings" which John Summerson had opened on May 26th at the Castle Museum. The Exhibition continues on view until August 26th and is well described and illustrated in a booklet published by the Norwich Museum's Committee, who organised the exhibition with the help of the Norfolk and Norwich Association of Architects.

Friday morning's discussion of the paper was more lively than on the previous day. Mr. Jefferiss Mathews, one of the joint authors, summed up points from the previous day's precedings, and both Dr. Martin and Dr. Weston, the other joint authors of the paper, answered questions in the general discussion which ended at noon to allow time in the afternoon for visits to places of interest.

The offer of a lift to see the Smithson's Hunstanton School tempted me more than the tours, good as they were. I had heard it said that exposed steel work of the school was beginning to show corrosion; in fact parts of the steel fascia I found had been repainted. The school is just like you see it in the photographs. Personally I like its proportions, colours and planning very much; dislike seeing through glass, furniture stacked for storage and a number of other features. I look forward to the Smithson's next work.

The Conference Dinner at the Samson and Hercules House on Friday was the last of the formal events; and, incidentally, the last occasion for Eric Bird to appear as Editor of the R.I.B.A. Journal, although nobody mentioned it in the speeches. There were six speakers, Mr. Charles Saxon, Vice-President, R.I.B.A., proposed the City of Norwich toast in a most fluent manner and the response by the Lord Mayor, Councillor Arthur South, who had been in office nine days and a City Councillor twenty-two years was one of the best mayoral speeches I have heard. Other speakers were: Lt.-Col. Sir Bartle Edwards, Chairman of the Norfolk County Council, Mr. C. H. Aslin, President R.I.B.A., Mr. Humphrey Boardman, President of the Norfolk and Norwich Society of Architects, and last of all, the Bishop of Norwich. The end speaker at the close of a

longish toast list, may sense the beginning of impatience—the scarcely muffled cough and fidgeting feet—of those who have to listen. Not so on this occasion; the Bishop had everyone spell-bound from the start. He warned architects (woe betide them if they forget) that a great responsibility lay in their hands; that they had no business to resent criticism; that not only were their ideas important but the impact their ideas made on other people's lives; that because times were new, it did not mean nothing old was any good; that copying the old was not architecture although it might be craftsmanship; to remember the dominant idea should be beauty—and so on. It was a good finish to a good Conference.

G. M.

NEWS

The Birthday Honours

Knights Bachelor: William Menzies Coldstream, painter, and Slade Professor Fine Art, University of London. Frederic James Osborn, chairman, executive committee, Town and Country Planning Association, Allan Stephen Quartermaine, president, Institution of Civil Engineers, 1951-1952. Frederic Collins Hooper. K.C.B.: Edward Francis Muir, Permanent Secretary M.o.W. C.B.E.: C. E. C. Hussey, for services to architecture. A. B. Mann, Chief Mechanical and Electrical Engineer, M.o.W. T. H. H. Turner, lately chairman, Cwmbran Development Corporation, Mon-Development Corporation, mouthshire. H. Connolly, County Architect. R. Y. G R. Y. Goodden, Professor of design, Silversmithing Department, R.C.A. O.B.E.: P. H. E. Bagenal, for services in the field of acoustics. Gilbert Ledward, sculptor, for services to the Royal Mint. J. C. Pritchard, Director and Secretary, Furniture Development Council. C. J. Saltmarshe, lately editor, monitoring service, British Broadcasting Service. (Former assistant editor, A. & B. N.).

Herts: Craftsmanship

The Hertfordshire-Chapter of the Essex, Cambridge and Hertfordshire Society of Architects are inviting nominations for the Award of the Certificate of Craftsmanship for 1955/56 in respect of work executed in the County of Hertfordshire within the past two years. The award is made in two classes: I. For general excellence of workmanship. 2. For an individual piece of workmanship. Further particulars from the Hon. Secretary, W. Wesley Turney, L.R.I.B.A., of 63 Wood Street, Barnet Herts.

Building Advisory Service

The N.F.B.T.E., who are responsible for the Building Advisory Service, has produced a brochure describing the work and aims of the Service. This will be distributed to members of the Federation and also to many other interested parties in an endeavour to arouse more interest amongst the

medium and small size firms than has hitherto been shown. The aim of the service is to advise Builders on how to lower their costs and increase productivity. It is available to all building undertakings in the United Kingdom whether they be members of the Federation or not. Investigations are undertaken in connection with any of the following subjects—Work study, incentives, materials handling, mechanisation, programming, site organisation, costing, office organisation, and personnel administration. A fee of £15 per day including subsistence and travel is charged for the service.

In Parliament

Moving the Temporaries

The Minister of Works was questioned about the dismantling and sale of prefabricated houses. He stated that up to the end of April contracts had been let for the dismantling and sale of 2,927 of these temporary houses. Normally the refrigerators in them were disposed of separately. He understood that the purchasers had exported a considerable number of the houses, but he had no precise information. Six houses had been sold direct to overseas buyers at an average price of £150 including refrigerators. addition 2,238 had been sold to local authorities as they stood. Mr. Hunter said that reports had appeared that middlemen had sold these prefrabricated houses to Italy, Switzerland and Holland at prices up to £1,500, and he asked for an investigation. Mr. Buchan-Hepburn promised to look into it. He explained to Mr. Collins that the practice was for the houses to be advertised and put up for competitive tender. Mr. Gibson asked on what grounds and policy the pulling down and sale of these temporary houses was justified, in view of the great demand for housing accommodation. Mr. Buchan-Hepburn pointed out that the Housing (Temporary Accommodation) Act, 1944, provided that after 1954 local authorities would be entitled to have the houses removed

unless the Minister of Housing and Local Government and the Secretary of State for Scotland considered the housing conditions necessitated this retention. The Ministry of Works really acted as agents for the Sales. (May 29).

Local Circumstances

Mr. Collins, in a question to the Minister of Housing and Local Government, asked what advice he had given to local authorities about the re-erection, by the authority or private persons, of dismantled prefabricated houses. Mr. Powell, the Parliamentary Secretary, told him that the Minister had given no general advice on this subject.

Fixed Price Tenders

Mr. Nabarro asked the Minister of Works what action he proposed, in connection with the policy of extending the area of fixed price contracts with a maximum value of £100,000, to permit price variations or escalator clauses in respect of increased charges by nationalised coal, gas, electricity and transport industries that might occur during the currency of the contracts, and in consideration of the fact that private enterprise contractors had no control over these charges. Buchan-Hepburn's answer was None. The point of my experiment of seeking fixed price tenders for selected projects undertaken by my Ministry is to find contractors who are prepared to accept all risks of fluctua-tion in costs". Mr. Nabarro commented that while fixed price contracts were desirable in principle the policy could not be effective as long as nationalised industries continued the practice of increasing their charges, leading to increases in price of power, freights and steel. Mr. Buchan-Hepburn replied to this scheme, at present limited to certain projects by his Ministry, was a voluntary one. There was no compulsion on anybody to come forward on the terms they suggested. The wider subject was a matter for Ministers concerned with the nationalised industries. (May 29).

BARBICAN REDEVELOPMENT

THE architects, Messrs. Chamberlin, Powell & Bon, were appointed by the Corporation of London to prepare a report for the Court of Common Council on the possibility of residential development within the Barbican area. At a press conference on Friday, 25th May, the scale model of their scheme and many plans and drawings were on view, and the architects present to discuss their proposals.

These envisage the creation of an independent residential neighbourhood with its own amenities and services which would at the same time become a cultural centre of the city, and complimentary to the large business and commercial districts. It was pointed out that the boundary of the site coincides approximately with the boundary of the parish of St. Giles-without-Cripplegate. In 1851 the population of this parish was 14,361 yet in 1951 it had fallen to 28—a meagre total for the 30 acres being considered for redevelopment in the heart of the City. The architects suggest the building of 17 blocks of flats which together would house about 6,700 people in 2,355 separate dwelling units.

Garden development

Underlying the overall conception has been the desire to turn the existing "desert" into a garden surrounded by these flats and new buildings for the City of London School, City of London School for Girls and the Guildhall School of Music and Drama. Flat units themselves are concentrated either in the three 30-storey point blocks

or a series of long, compactly planned terrace blocks which leave much of the ground free for open development and garden planning.

Motor traffic would be excluded from this garden area which is intended for pedestrians only.

Building groups

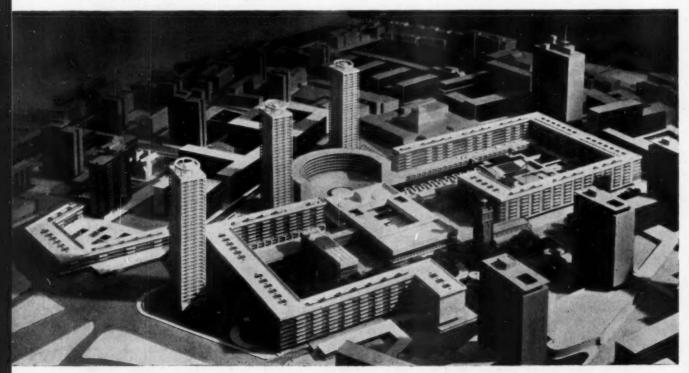
To avoid monotony in such a large scheme the blocks of buildings are ranged in groups. The three point blocks south of Barbican echo the high commercial buildings forming part of the Martin/Mealand proposals on the south and east and complete the series of vertical elements which surround the central part of the layout. Lower terrace blocks have been grouped to embrace or define certain parts of the garden development and the schools are in a series of relatively low buildings around a cloistered quadrangle. It is this quadrangle which forms the heart of the whole scheme.

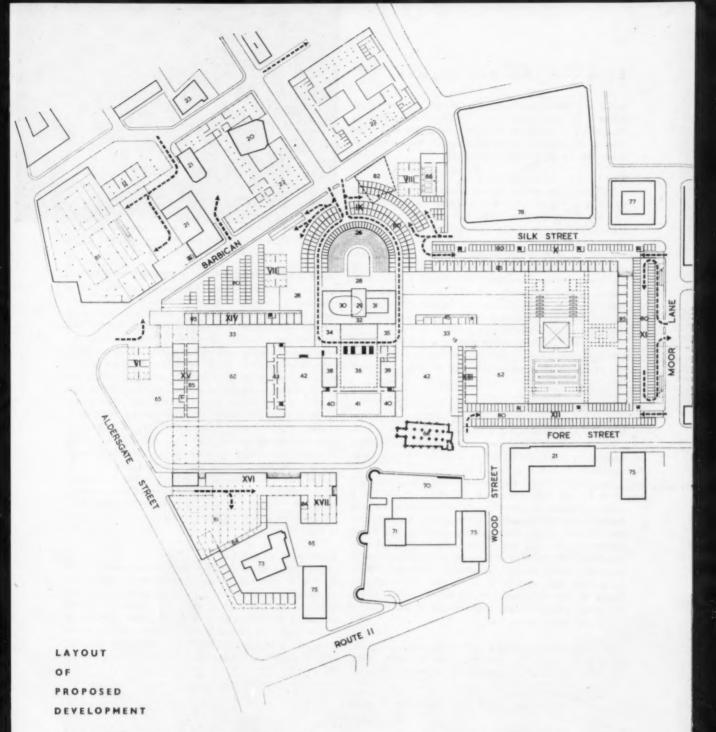
Linking the office blocks flanking route II and Moor Lane are the podia which form a pedestrian walk-way some 20ft above ground. This feature is carried round the base of two of the point blocks, in the terraces projecting into the garden to east and in the podium from which rise the terrace blocks to north. The walkway, therefore, forms a continuous link between the commercial and residential blocks.

Paths, planting and ornamental water have been given considerable emphasis in the planning and general layout so that they will serve as additional elements for tying the

Continued on page 622

Model of proposed scheme





1 16 storeys of flats. III 16 storeys of flats. III 3 storeys of flats above shops and garages. IV 3 storeys of flats above shops and garages. V 3 storeys of flats above shops and garages. VI 31 storeys of flats rising from the sunken moat. VII 29 storeys of flats above 2 storeys of garages. VIII 29 storeys of flats above 2 storeys of garages. IX 6 storeys of flats above 2 storeys of garages. X 6 storeys of flats and maisonettes above 2 storeys of garages. XI 7 storeys of flats and maisonettes above 2 storeys of garages. XII 7 storeys of flats and maisonettes, open at ground level. XIII 8 storeys of flats and maisonettes. XIV 8

storeys of flats and maisonettes. XV 9 storeys of flats and maisonettes. XVI 7 storeys of flats and maisonettes, open at ground level. XVII 7 storeys of flats and maisonettes, open at ground level. 20 Cripplegate Institute. 21 existing office buildings. 22 new office buildings. 23 Methodist Chapel. 24 public open space. 26 amphitheatre. 28 ornamental water. 29 stage and workshops. 30 theatre. 31 concert hall. 32 art gallery. 33 Broad Walk. 34 west portico. 35 east portico. 36 quadrangle containing pavilion for Lord Mayor's coach. 38 Hall of the City of London School. 39 Hall of the City of London

School for Girls. 40 gymnasium. 41 swimming bath. 42 paved forecourt. 43 City of London School; teaching block. 45 Guildhall School of Music and Drama; music practise block. 62 lawn. 65 sunken grass-covered moat. 66 boscage of trees. 68 St. Giles Church. 70 London Wall Restaurant. 71 Barber Surgeons Hall. 73 Ironmongers Hall. 75 18 storey office block. 77 City greenyard. 78 Whitbread's brewery. 80 garages. 81 covered car park. 82 electricity supply station below. 83 existing office buildings. 84 shop stores. 85 court level flats. 86 district heating station.

Barbican Re-Development

design together as a whole. The design emphasises the necessity for open spaces in the City by allowing them to be used by the pupils of the schools during the day, when most of the residents are at work, and in the evenings or week-ends by the residents themselves.

Roads and underground

To compensate for the closing of existing roads between Barbican and Fore Street it is proposed that Moor Lane and Silk Street should be substantially widened. By decking over the existing district underground, residents would be protected from train noises and at the same time good use can be made of the additional space above. Main sub-ground utility would remain where they are to avoid the heavy expense that must be involved if they were moved. Perimeter roads would, it is considered, give sufficient access for vehicles and extensive garages at ground and basement level are provided—the garages have direct access from surrounding roads.

The architects consider that land north of Barbican and east of Golden Lane is unsuitable for housing development and have therefore suggested that this should remain zoned for commercial building.

Detailed proposals Cultural centre

In the central group of buildings is a theatre, a concert hall, the school halls and a swimming bath. A section taken through this area shows that the relative building heights decrease from highest to north to the open space extending to route II in the south.

By grouping these large elements around the quadrangle on a 1-storey high podium at the centre of the site a cultural nucleus is created. The consideration that the buildings may also be used by outside bodies has prompted the architects to plan more generous buildings than would be the normal. The theatre and concert hall could each seat some 700 people to a standard which would make it possible to obtain licences for public entertainment and the foyers can also serve as an art gallery. Although the height of these buildings is limited to four storeys or less the group could be made large enough to dominate the estate and form a focus.

Residential buildings

In order that a fair assessment can be made of the income which might reasonably be expected from the



Model of an earlier scheme for the site prepared by the architects in June 1955.

letting of flats these units were designed in some detail.

Many maisonnettes have been included as this type of dwelling is considered by the architects to have technical advantages and they are becoming increasingly popular with tenants. Owing to the high cost of lifts, direct lift and staircase access flats have been avoided and most of the dwellings are approached by corridors—either centrally placed or to North where the loss of an external wall is least serious. Following on this conception flats have been planned to catch the sun during at least part of the day. Many flats are planned with rooms en suite separated only by large sliding or folding screens. Such designs it is hoped will do away with the sense of boxiness usually associated with a series of self contained rooms and yet keep the cost of the buildings within a reasonable limit of capital expenditure.

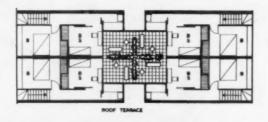
This economic planning is carried further by placing many bathroms and some kitchens, internally. An arrangement which makes it possible to plan on a comparatively narrow frontage while allowing living rooms the full benefit of external walls.

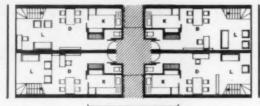
Cost and erection

The total area of ground subject to the present report is some 30 acres but the model and drawings which were submitted cover a much larger area of approximately half a square mile in order to show the relationship of the architect's detailed proposals to all the known surrounding developments. At current prices the estimated cost of the architects' scheme is £10,500,000; and if approval was given they consider that this scheme would seven years to complete.

Schools Theatre, Concert Hall and Block 9

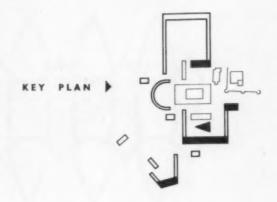
THEATRE CANAL STAGE AMPRITHEATRE ONE & TWO BOOM FLATS BOOM FLATS

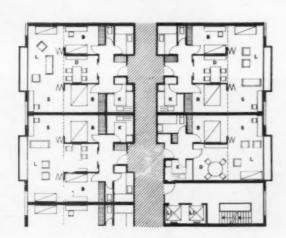




LIGHT & VENTILATION FROM ABOVE

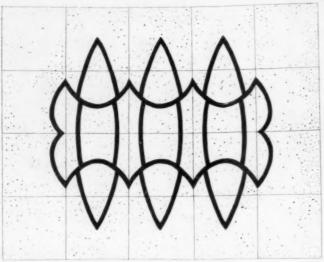
◆ Blocks 4, 13, 15 and 17. Typical flat plans.

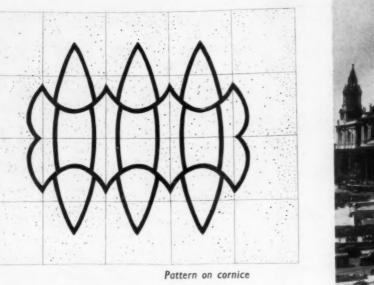




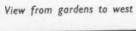
Sectional perspective of terrace blocks







Looking towards St. Paul's





GATEWAY HOUSE, Near St. Paul's

architects: TREHERNE & NORMAN PRESTON AND PARTNERS

consulting engineers: R. Travers Morgan & Partners

GATEWAY House which was officially opened on Monday is now the London headquarters for the Wiggins Teape & Alex Pirie (Sales) Ltd., and is one of the first of the major office buildings to be completed in the immediate area of St. Paul's.

Four roads lay down the boundaries of the site—Watling Street to north, Bread Street to east, Cannon Street to south and between the cathedral to west is New Change, a new road.

The L.C.C. demanded that the main office entrance should be off Watling Street and in addition gave various building lines which had to be adhered to on the west and east boundaries. Running north-south right through the site centre is a public right of way—Friday Street—and this had to be left open. In addition there were regulations to be adhered to in regard to the requirements for St. Paul's Precincts.

Design

All these restrictions more or less dictated the form of the plan; the two boundaries on the east and west were fixed and the logical step was to follow the curve of Watling Street for the main wing. Friday Street was retained as a public way by making a passage right through the building, on the ground floor, and separating this from the rest of the building by glazed screens.

Throughout, the treatment of the scheme has respected the proximity of St. Paul's and other buildings. Thus the height restriction was limited by the height of the main cornice of the Cathedral and the projecting cornice of the office building is 90 ft above

pavement level. This cornice is also the same level and projection as the cornice of the Bank of England which is under construction on the site to north.

Planning

The sections show that the building has two basements. One of them is a parking garage for some 30 cars and the other, the lowest, is a bulk storage. This basement is totally enclosed by 2 ft thick R.C. walls and if the occasion should arise it could be used as an air raid shelter.

Above these rise the six floors of offices and topping the whole structure is a penthouse and lift motor room. A caretaker who has one of the best views over London lives in a flat in this penthouse: and the rest of it is a coffee bar for the staff.

The building has a total of 166,000 ft sq of usable floor space.

Construction

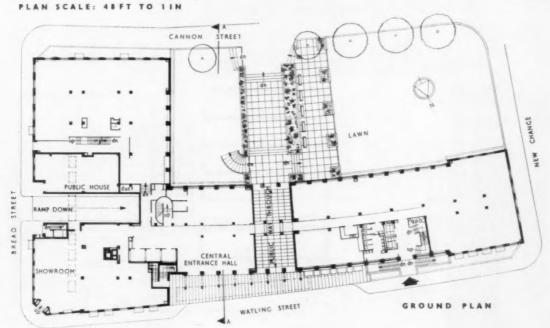
Orthodox beams are totally eliminated by the adoption of flat slab construction. This has a heavily reinforced "plate slab" in lieu of an edge beam which runs back 2 ft from the slab edge. The rest of the floor is of hollow pot construction.

With this simplification of shuttering the erection time was rapid and with the job in its stride the contractor was casting one floor every two weeks.

Internal services

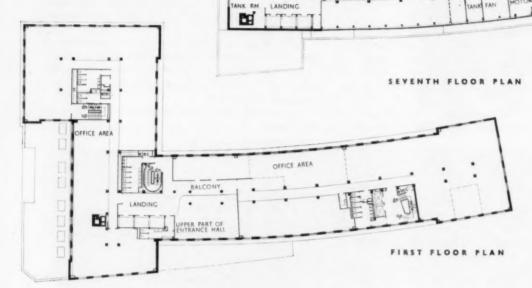
The whole of the building is served by an elaborate communication system of pneumatic tubes at strategic points on the office floors. Teleprinters from the old

Continued on page 629



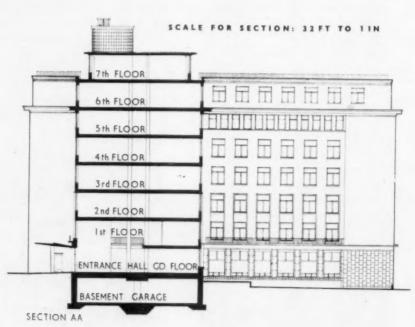
SCALE FOR PLANS: 48 FT TO 1 IN





Office partitions





General Contractor: TROLLOPE & COLLS LTD.

Subcontractors:

Acoustic Tiles: May Acoustics Ltd. Asphalt Tanking & Roof: Highways Construction Co. Ltd. Anti-condensation Ceiling: C. & T. (Pyrok Contracts) Ltd. Balcony Balustrade: J. Starkie Gardner Ltd. Bar Fittings: Gaskell & Chambers Ltd. Bricks: Henry J. Greenham (1929) Ltd. Richard Parton (Builders' Merchants) Ltd. Cellulose Spraying: R. Fox & Sons. Come nication Tubes: Lamson Engineering Co. Ltd. Cooking Equipment: Benham & Sons Ltd. Cork Insulation: Cork Insulation & Asbestos Co. Ltd. Cork Tile Flooring: Armstron Cork Co. Ltd. Counters and Fitments: Falkus Bros. Ltd. Decorations: Heal's Contracts Ltd. (Directors' Dining Room and Lounge), Maple & Co. Ltd. (Board Room), Catesby's Ltd. Dining Room (Managers), T. & W. Ide Ltd. Dome Rooflights. Entrance Hall Doors: J. Starkie Gardner Ltd. Excavation: Willment Bros. Ltd. Fire Shutters: Shutter Contractors Ltd. Flagpole: Piggott Bros. & Co. Ltd. Furniture: Heal's Contracts Ltd. (Reception area), Maple & Co. Ltd. (Board Room). Glazing: Faulkner Green & Co. Ltd. Handrails—Wooden: F. J. Lewis Ltd. Heating and Ventilation: Young Austen & Young Ltd. Hose Reels: The Pyrene Co. Ltd. Ironmongery: G. & S. Allgood Ltd. Kitchen Fittings (Caretaker's Flat): Built-in Fixtures Ltd. Lettering: The Lettering Centre. J. Starkie Gardner Ltd. (External) Lifts: Hammond & Champness Ltd. Lighting Fittings: Heffer & Co. Ltd. Lightning Conductors: W. J. Furse & Co. Ltd. Marble Wall and Column Facings and Mosaic Panels: J. Whitehead & Sons Ltd. Neon Sign: Claude General Neon Lights Limited, Panels—Metal: Charwood Safe & Engineering Co. Ltd. Partitions (Internal): Triplewoods Ltd. ing Co. Ltd. Partitions (Internal): Triplewoods Ltd. Pawement Lights: Lenacrete Ltd. Paving: Wm. Knight & Co. Ltd. Plastering: J. H. Jenner & Co. Ltd. Pressed Metal Skirting: The Morris Singer Co. Ltd. Quarzite Facing and Paving: John Stuble (Marble & Quarzite) Limited. Racking: Acrow Engineers Ltd. Roller Shutter to Garage: Dennison Kett & Co. Ltd. Rails to Roof and Balcony: Kingsmill Metal Co. Ltd. Sanitary Fittings: John Bolding & Sons Ltd. Scaffolding: Palmer's Travelling Cradle & Scaffold Co. Ltd. Slate Surrounds: John Stubbs (Marble & Quarzite) Ltd. Sprinkler Installation: Independent Sprinklers Ltd. Stoir Balustrades: S.W. Farmer & Sons Ltd. Telephone System (Internal) E. Shipton & Co. Ltd. Terrazzo Paving: Art Pavements & Decorations Ltd. Tiling—Floor and Wall: Carter & Co. Ltd. Venetian Blinds: The Crittall Manufacturing Co. Ltd. Windows—Metal: The Crittall Manufacturing Co. Ltd. Wood Block Flooring: The Acme Flooring & Paving Co. (1904) Ltd.



Coffee lounge on 7th floor



PUBLIC HOUSE BASEMENT PORTERS

BOILER HOUSE FAN GARACE

UP

BOILER HOUSE FAN GARACE

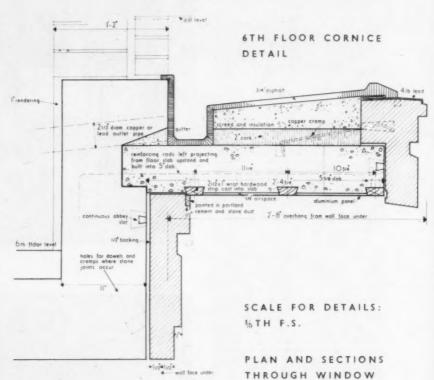
OR ARACE

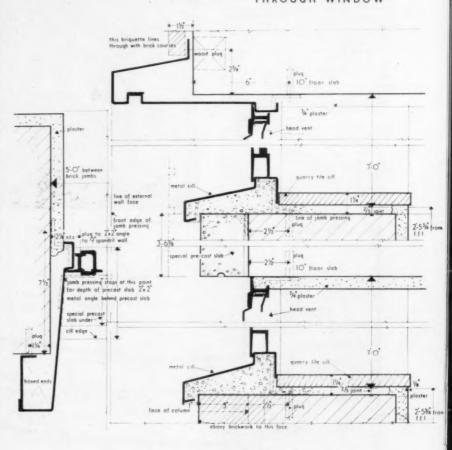
O











Gateway House

headquarters at Aldgate House, which is now the main stores depot cope with the orders and invoices by a direct line and these are sent via the tubes to the requisite offices.

Messages and inter-office memos are also dealt with in this manner.

Finishes and details

The exterior is faced with 2in ebony coloured and buff coloured bricks and at the window head the reveal is formed by a special brick that is L shape in section.

On the top floor the lift motor room is faced with pale grey quartzite from the Brocco mountain area in Italy.

Inside the main foyer is the original foundation stone of the City Gateway of Aldgate that was salvaged from the rubble after the bombing and this has been embedded in the wall.

The columns on the ground floor are faced with black Portoro marble with a gold vein and the walls have a grey-green Cipollino marble finish.

External appearance

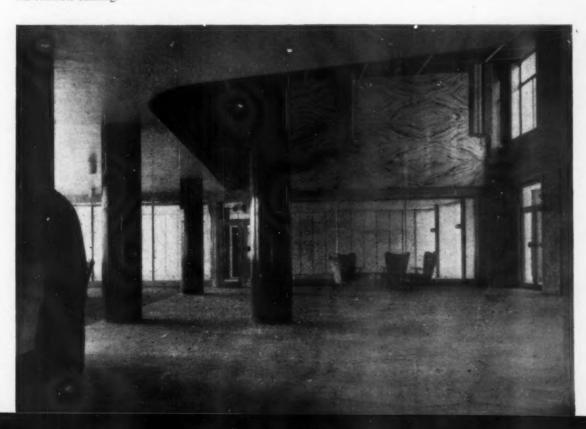
Each of the windows facing Cannon Street are floodlit from the inside and the building can be illuminated at night.

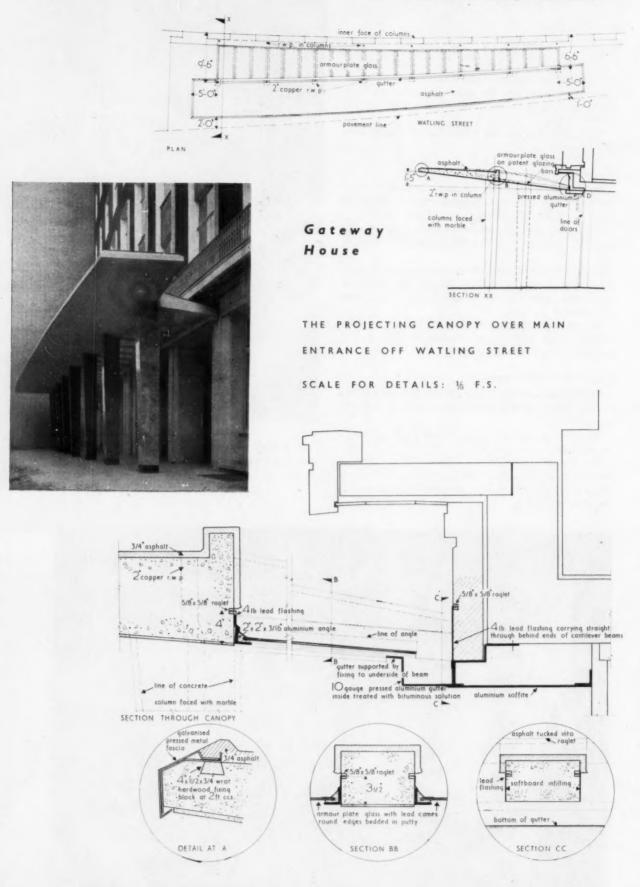
The window surrounds generally are pressed metal as are the cills.

The mosaic panels on the Cannon Street elevation were made as one panel before erection, and then lifted into place. Holding these panels are G.I. bolts set into the concrete backing.



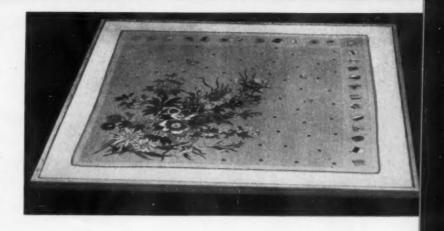
Looking down on the entrance foyer from the mezzanine level and a view towards Friday Street in the background of the lower photo





One of the table tops. They are all surfaced with "Klingdecor"—an asbestos fibre sheet impregnated with the plastic melamine. These tops are heat resistant and have patterned squares of thin material pressed beneath an upper laminate which is transparent so that the design is visible yet the material is protected by a durable finish.





Le Chalet

Interior design by E. TOBLER

WITH the opening of this coffee house at York Street, Twickenham the expresso movement spreads gradually outwards from its stronghold in the West End. This lounge is inside premises that were originally offices and the overall design has leaned towards an approach reminiscent of a coffee lounge or cafe in Switzerland. Over the counter the ceiling was lowered to induce the impression of an alcove in the room. It is boarded with pine planking. Ash boards are on the wall and make up the counter and running between the counter and the ceiling is a carved wooden post supporting a brass and turned wood, light fitting. Breaking up the room are low partitions of polished ash boarding which have at the base radiant heating tubes. The warm air outlet grilles are slotted into the top board.





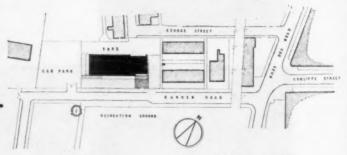
Entrance front

OFFICE BLOCK WREXHAM

For Rogers Jackson Ltd.

architects:

LEONARD MULTON, F.R.I.B.A.



BLOCK PLAN

THE clients are large suppliers of builders' merchants' materials in the North Wales area. They required a modern office block to accommodate the whole of their clerical and sales staff. Facility for serving light meals was to be provided. The building was to be no more than two storeys, and capable of extension.

Site

The site is level, in a cul-de-sac, with a frontage having a southerly aspect. It faces a small park on the outskirts of the town.

Solution

The solution to the client's problem called for a simple straightforward rectangular main block, divided

by a central corridor on each floor, giving access to offices, cloakrooms and canteen. Attached to the main block at the west end is a smaller unit consisting of the entrance foyer, waiting room, strong room and boiler house, and a main staircase leading to a first floor board room and central access corridor to offices.

The eastern end of the main block is left free from all planning restrictions, to allow for extension. The subsidiary staircase at this end is prefabricated and capable of being removed and being re-erected in the extension when this takes place.

The planning of the office accommodation provides for a double row of desks with ample space between them. A large amount of filing space was required; and the whole of the dividing wall to the corridor is used for this purpose. The corridors are naturally lit by clerestory lighting above the filing shelves.

Offices with a southerly aspect are provided with venetian blinds, gear controlled, and designed as part of the structure. These blinds are concealed from view when fully raised.

The equipment and planning of the cloakroom accommodation were designed to illustrate good plumbing practice and sanitary fitting layout. All piping to fittings is concealed in wall chases or pipe ducts made accessible for maintenance. The w.c. divisions are precast terrazzo.

Construction

The main block is steel framed, clad with cavity brickwork. The subsidiary block forming the entrance foyer, etc., is in load bearing 11in brickwork, partly faced with random coursed squared local lime-stone.

The first floor is of hollow tile construction; the roof is timber joisted between the steel lateral beams, boarded and asphalted. Corridor walls are 4½ in hollow clay tiles.

The windows throughout are purpose-made rust proofed steel. Pressed sheet metal mullions encase the outer flange of the steel stanchions.

Special features

The structural steel stanchions and perimeter beams are encased within the cladding walls, and no projections occur inside or outside the building. The tie beams at first floor level are concealed within the structural floor thickness.

The structural steelwork forming the flat roof has been designed so that no beams show below ceiling level, and this has been achieved without the necessity of a false ceiling. Continuous beams extending the full width of the building are used to reduce their depth to a minimum.

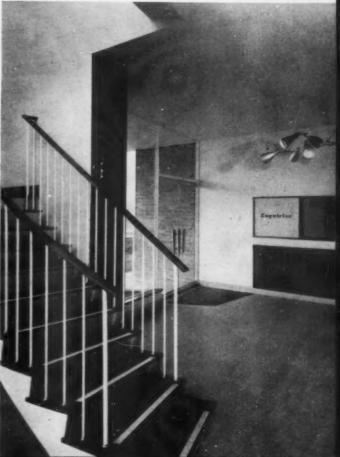
Heating pipes are concealed within floor ducts at ground floor level. At first floor level the stanchions are provided with slotted holes to take the flow and return pipes to the first floor radiators. The pipes, which are insulated, are completely concealed by removable fascias, allowing access to the pipes if necessary.

A portion of the ground floor is set aside as a machine room for mechanical accountancy. This has been sound-proofed by means of cavity wall construction, with wall ties omitted. The inner leaf consists of hollow tiles completely separated from the main structure by insulating material at all abutments.

The main staircase is constructed of in situ reinforced concrete, the treads are in 1½ in teak with an inset strip of Ferodo across the full width by the nosing. Risers are faced with anodised aluminium sheet metal. The

The entrance foyer with a view of the main staircase





Office Building, Wrexham

sides and soffit of the stair flights are plastered. The balustrade is constructed of rust proofed, white stove enamelled mild steel balusters, with a hand rail in polished teak. Brass collars cover the joint between each baluster and tread.

Natural ventilation to all offices is provided by horizontally pivoted opening lights operated by Arens cable control.

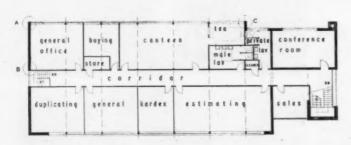
Finishes

Floors—All offices and corridors: Wood block. Cloakrooms and canteen kitchen: Terrazzo pre-cast tiles. Entrance foyer: Terrazzo pre-cast tiles. Plastering: This has been executed in 'Carlite' plaster, which has improved insulation and acoustic properties, compared with normal hard wall plaster. Heating: This is a low pressure hot water system, operated by a gasfired boiler. Wall type radiators are used throughout. Where radiators are beneath windows, the cill board is extended to act as a shelf. Artificial lighting: All offices are lit with suspended fluorescent tube fittings, giving an even distribution of lighting, positioned to give a symmetrical appearance from outside. Corridor lighting is provided by filament lamps housed in spun

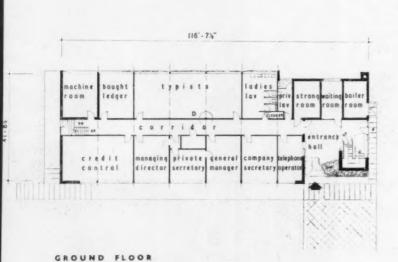
metal reflectors. The entrance foyer is lit by similar means, with the fittings designed as decorative features. Telephones: G.P.O. telephone and internal telephone wiring is housed in a specially designed skirting. Socket outlets are provided in the skirting so that telephones may be plugged in where necessary. Power wiring socket outlets are also provided in the same skirting to serve office machinery. Decorations: Considerable use has been made of colour throughout the building, both internally and externally.

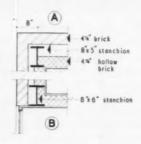
General contractor: Alun Edwards Ltd.

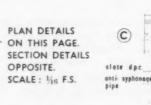
Asphalting: Birmingham Asphalt & Paving Co. Ltd. Armour Plate and Armourcast Doors: Pilkington Bros. Balustrades: Craftmetals Ltd. Bailer—Gas Fired: Ideal Boilers & Radiators Ltd. Bricks—Facing: Blockleys Ltd. Desks: Leabank Office Equipment Ltd. Display Lettering: Ward & Co. Electrical Installation: Thorntons of Wrexham. Flush Doors: Southerns Ltd. Heating: Rogers & Jackson. Ironmongery: K. S. Neale Ltd. Lantern Lights and Glass Domes: Standard Patent Glazing Co. Ltd. Lighting Fittings: Best & Lloyd Ltd. Paint: Imperial Chemical Industries Ltd. Partitions—Glazed: Rubery Owen & Co. Ltd. (Industrial Storage Equipment Division), Pavings (External): John Ellis & Son Ltd. Plaster (Carlite Patent): Gotham Co. Ltd. Prefabricated Staircase: M. E. Breaker (Metalwork) Ltd. Reconstructed Stonework: Empire Stone Co. Ltd. Sanitary Goods: Rogers & Jackson Ltd. Sculptured Panel: College of Arts & Crafts under the direction of W. Bloye, F. R. S. Birmingham. Strong Room Door: Chatwood Safe & Engineering Co. Ltd. Structural Steel work: Ruberry Owen & Co. Ltd. Suspended Floor and Staircase: Kleine Co. Ltd. Terrazzo Floors and Partitions: Marbolina Co. Ltd. Thermoplastic Floor Tiles: Marlat Tile Co. Ltd. Itales—Golaured External: Shaws Glazaed Brick Co. Ltd. Venetion Binds: Criticall Manufacturing Co. Ltd. Wollpapers: John Line & Sons Ltd. Windows & Gearing: John Gibbs Ltd. Wood Block Floors: Hollis Bros. Ltd.



FIRST FLOOR



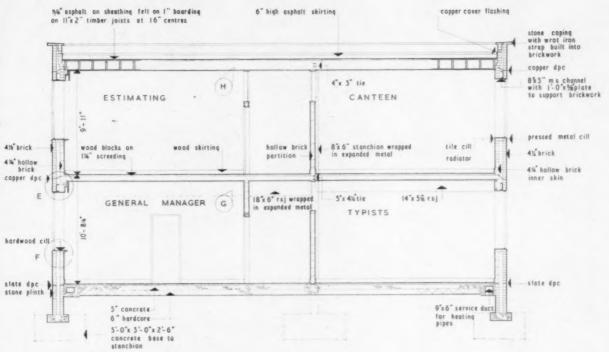




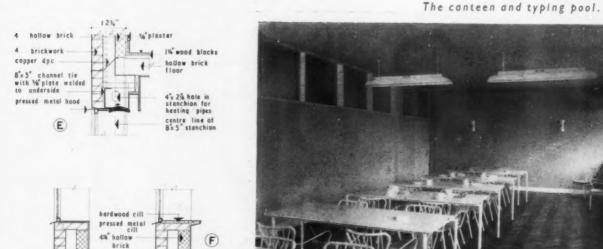


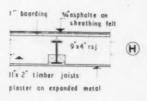
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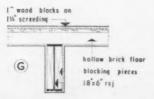




SECTION THROUGH BUILDING SCALE: 8 FT TO 1 IN











Lightweight Concrete Blocks

HE value of lightweight concrete blocks both for load bearing and non-load bearing purposes is still only slowly being appreciated as it continues to be necessary to overcome many prejudices against their use; these prejudices are current mainly for the reason that there is an idea, which is widely held by laymen as well as many builders, that they are a second-rate building material and far inferior to dense concrete blocks and to bricks. It is unfortunate that those who hold this view are not more willing to appreciate fully the advantages to be gained by the use of lightweight blocks as a means of improved thermal insulation and of reducing handling and transport costs, which result from the less weight of the blocks for a given wall area. There is no doubt that there is real benefit in the use of these blocks to the building industry

The lightweight blocks can be made with ample strength for load-bearing purposes, such as the internal leaf of external cavity walls, or for loadbearing partitions for a great many applications. For these load-bearing purposes a compressive strength of not less than 400 lb/sq in is needed and this can be achieved without destroying the insulation value. It should also be borne in mind that the British Standard defines these compressive strength requirements as a minimum for the average test results of 12 blocks, but it does permit individual blocks to fall below this figure so long as the test result is not below 300 lb/sq in.

It is perhaps rather unfortunate that it is so easy to make concrete blocks with both dense and lightweight aggregate. This facility seems to have resulted in far too many people buying a block making machine, some aggregate and cement and starting in business as block makers but without having the very essential knowledge of what is required of a concrete block to avoid trouble and without having the equipment necessary to check that their raw materials, their mixes and their ultimate products are such that produce blocks of suitable quality. There certainly are large quantities of blocks of poor quality which relatively quickly become a source of failure of finishes such as plaster and decoration on account of cracking, due to drying shrinkage and moisture movement. It is my belief that it is of the utmost importance to buy concrete blocks only from reputable producers who have proper control of their products from start to finish and including the facilities for the proper storage and transport of the blocks.

This lightweight type of block is so often called "breeze block," but today few, if any, are made from breeze and it is as well that they are not as it is important to use materials which do not have serious losses when tested for combustible content and do not contain material likely to cause ultimate difficulties. Very many lightweight blocks are made from clinker, which is a very variable waste material and consequently needs constant testing to ensure that the harmful ingredients are within limits, as given in B.S.1165, which will make sure that when made up into blocks there should be no undue trouble resulting from their use. B.S.1165 sets out both limits and tests and it is wise, when buying clinker blocks, to make quite sure that the suppliers can show that they test their clinker frequently and constantly to this B.S. on account of the variability of the raw material. The important factors to watch are that the soluble sulphate does not exceed the limit given in the B.S. and that the percentage loss in the ignition test does not exceed 20 per cent. for load bearing blocks (type B) and 30 per cent. for non-load bearing blocks (type There are some people who believe that the limits in this B.S. for the loss on ignition are unnecessarily low and that a higher limit could be allowed and still ensure the production of blocks which are safe to use. It is believed that much of the clinker available today has a high percentage of combustible material although some very reputable block makers remain convinced that no trouble arises if this is a little greater than the B.S. limit. Personally, I remain to be convinced and if the makers' test results are unlikely to be within the B.S. limits I prefer to adopt other aggregates, even if these make the blocks more costly.

Of the aggregates alternative to clinker for block making there is foam slag, expanded slate, shale and clay, vermiculite and natural pumice. There are considerable quantities of foam slag and expanded perlite available, both of which are home produced materials. There are also in fairly large quantities of vermiculite and pumice, but both of these are imported. Foam slag has a density about the same as pumice but the resulting concrete tends to be rather more dense. Perlite is only very slightly more dense than vermiculite and both are far less dense than the other materials and the perlite produces

blocks with a high compressive strength. Requirements for the quality of foam slag are given in B.S. 877 but, at least for the present, there are no British Standards for the other alternative materials.

Lightweight concrete blocks, regardless of the aggregate used since a wide range is provided for, should comply with the requirements of B.S.2028 and even when the blocks are not, for some reason, of the sizes and shapes given in the B.S. the tests given should still be applied. As these lightweight blocks are very often used more or less independently of brickwork there seems no reason why their sizes should not vary from those given in B.S.2028, which are directly related to brickwork, when the lightest types of aggregate are used. The B.S. sizes are based on a nominal 18in. length with heights to conform to the needs of three courses of bricks in the two common sizes but it would seem possible to increase, without undue difficulty in handling, the sizes up to at least 24in long and 12in high, the thicknesses, of course, remaining as set out in the B.S., namely, 3in 4in 44in 6in or 84in for load bearing purposes and 2in 2in for non-load bearing purposes. These larger blocks are still handleable by one man and, as all blocks, need both hands to lift them into place.

The important factors to be borne in mind when using these blocks, which the B.R.S. have frequently stressed but unfortunately still seem often to be forgotten, are not only to see that the quality of the blocks is suitable and complies with the test requirements in the British Standards both for the aggregates and for the blocks themselves when made, but also the use of suitable mixes for mortar, rendering and plaster used with the blocks. There is always a tendency on the part of operatives, for some inexplicable reason, to use mixes which are too strong and consequently likely to cause cracking: weak mortar is essential and should, for normal purposes, be cement, lime and sand mixed in the proportions by volume of 1:2:9. A similar mixture for plaster undercoats is also satisfactory if a small amount of gypsum plaster is added. The B.R.S. has also stressed the need to protect blocks during transit and to stock them carefully under cover on the job so that they do not become saturated with rain-water. The B.R.S. issued a very com-plete Digest, No. 52, on the use of these blocks for housing purposes and the M.O.W. have recently issued Advisory Leaflet No. 38 which deals both with lightweight blocks and the use of lightweight concrete for roof screeding. Both these publications stress the importance of not applying plaster and rendering to damp blocks until they have thoroughly dried out.

DUTCH UNCLE

Industrial Notes

- British Plimber Limited, manufacturers of Plimberite, the resin-bonded wood chipboard, announce the appointment of Mr. Alan Watson as their Fechnical Representative for South Wales. His address is 18 Walter Road, Swansea. Mr. Watson takes over from Mr. Frank Lennon, who will continue to cover South and South-West England for British Plimber Limited.
- Dunlop Group sales to the public last year reached a record, £219,000,000, a rise of 15 per cent. over 1954, and the estimated increase in the volume of goods sold was 6 per cent. Aggregate sales, including supplies within the group, rose from £262,000,000 to £302,000,000. Selling prices were not sufficiently increased to offset the increase in raw material and other costs, and the margin of profit, as a percentage of sales, fell from 6.2 per cent. in 1954 to 5.3 per cent. after all charges except tax.
- The 600 Group of Companies will be exhibiting on no less than six stands at the 1956 International Machine Tool Exhibition to be held at Olympia from 22nd June to 6th July. The machines on show will be representative both of those actually manufactured by companies within the Group and of the very wide range of British, American and Continental machines for which the Group act as distributors in the United Kingdom.
- The Ruberoid Co. Ltd. (11-19 New Oxford Street, London, W.C.1) announce that Col. R. P. W. Adeane has joined the board of the company. Col. Adeane is also chairman of Cochran & Co., Annan Ltd., and a director of Ransomes & Rapier Ltd. and Consolidated Trust Ltd.

- The largest single overseas order for domestic electric cookers during recent years has been placed by Singapore City Council with The General Electric Co. Ltd. Valued at well over £1,000,000 it is for 5,000 cookers. Four thousand of these cookers will be standard British models, the other thousand will have hobs specially adapted to Eastern needs. It was on a tour of the Far East that Mr. Leslie Gamage, Vice-Chairman and Joint Managing Director of the G.E.C., noted Asia's special requirements for domestic electrical equipment. Hence, the development by G.E.C. of the Kwali cooker which is produced as a standard European cooker, giving economic benefits of mass production, but with a hob conforming to Eastern needs.
- Thomas De La Rue & Company have formed an Australian subsidiary Company to manufacture Decorative Lam:nated Plastics in a new factory, situated near Sydney. Since the end of the war the Company has done considerable export trade with Australia in "Formica" laminates and other plastic products. The new Company will work in close association with Email Limited, whose subsidiary Company, Messrs. James Balfour & Co. (Pty.) Ltd., have acted as Sales Agents for "Formica" laminated plastics since 1947. The Company, which will have an authorised capital of £A1,000,000, is expected to commence production within two years. Mr. H. M. Bathurst, who has been with Email Ltd. in an executive capacity for many years, has been appointed General Manager of the new Company.
- Chamberlain Industries Limited, of Staffa Road, Leyton, London, E.10, have been appointed sole agents in England and Wales for the Jenbach Diesel-Driven Air Compressor.

- Due to the continued expansion of both divisions of Steelbracketing & Lathing Ltd. it has been decided to reconstitute the "Steelbrac" Steel Partitioning and Steel Equipment Division into a separate company, to be known as "Steelbrac" Ltd., to operate from 1st May from Willow Lane, Mitcham, Surrey, tel. Mitcham 4072/3/4. The Suspended Ceilings Division will retain the existing title of Steelbracketing and Lathing Ltd., and will operate from 3-8 Brigstock Parade, Thornton Heath, Surrey. Thornton Heath 3015.
- Mr. John R. Rylands, M.Sc., M.I.Mech.E., M.I.E.E., F.Inst.F., will succeed to the office of President of the Institute of Fuel in October next,
- Hanovia (Lamps Division of Engelhard Industries Ltd.) announce a modification to the retail price of their new Radisil infra-red domestic heater, due to purchase tax regulations. With immediate effect, purchase tax is payable on the complete unit, bringing the total retail price for the heater and element (irrespective of wattage) to £5 16s. (instead of £5 14s. 1d.). Elements sold subsequently as spares have been reduced in price from 15s. to 13s. 4d. retail (irrespective of wattage) and will not be subject to purchase tax.
- Polycell Products Ltd. announce that, following keen trade enquiries, they can supply Polyfilla in 56-lb. bulk packs. Terms, dependent on quantities, are obtainable from the firm at 84 Albert Street, London, N.W.1. Euston 4848.
- Reckitt & Colman Holdings Limited announce that their offers to acquire the 7½% and 5% Participating Cumulative Preference Stocks and the Ordinary Stock of Sissons Brothers & Co. Ltd. have been accepted by the holders of over 90% of each class of Stock. All conditions upon which the offers were made have been fulfilled and the offers have therefore become unconditional and binding.



Messrs. Cannon (G.A.) Ltd., gas appliance manufacturers, have recently opened a new showroom at 40, Easy Row, Birmingham. Designed by Montague Reed, M.S.I.A. the premises also provide a gas educational and cookery centre. There is a reception lounge for informal conferences, cinema-cum-demonstration theatre and basement training centre for operatives. Mr. Reed has made use of rich colour on plain surfaces with carefully placed lighting throughout.

NEW PRODUCTS

The Supaslot Angle Co. (G.B.) Ltd., have added to their range of slotted angles with two items. One, a heavy industrial angle \(\frac{1}{2}\) in thick, \(\frac{1}{2}\) in by \(\frac{1}{2}\) in, the other, Supaslot minor, is the same size in 14 gauge. Fig. 6.



A permanent heavy-duty flooring, Mettaflor Fig. 3, consists of square cast-iron plates with a striated upper surface and ribbed underside. Vent holes prevent air being trapped during laying. By W. T. Henley's Telegraph Works Co. Ltd.



The model HB by the Hotpoint Electric Appliance Co. Ltd., Fig 4, has been designed for the smaller kitchen, size 17½in wide by 18in by 29in, it is available in white or cream. Heats the water. Capacity, 5lb dry clothes.



E. K. Cole Ltd., produce a thermal storage heater, Fig. 2, which is available with 1½ or 2½ kW loadings. The sloping top of the case prevents it being used as a shelf and possibly causing overheating.



The Fordham Panel Type Cistern has been re-designed, Fig. 7, by Fordham Pressings Ltd. It is available with foot operation and in colour.



An oil burner weighing 60lb which can be fitted to most boilers is now being produced in this country by White's of Hebburn (Engineers) Ltd. Fig. 5. Known as the Firepak, it incorporates a photo-electric cell safety device for flame failure.



The Kieft fully automatic oil fired boiler, Fig. 1, is available in two finishes, grey mottle and light cream. Made by Cyril Kieft & Co. Ltd., it is fitted with the 9Cl self-lighting oil burner. Output 65,000 B.Th.U.s.



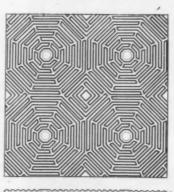
Lacrinoid Products Ltd. announce the addition of pastel colours to their range of door furniture,



The Marley Tile Co. Ltd. has introduced a plastic handrail in Vinyl plastic. It is applied over wood or metal cores. Available in six colours. A new Marley 'G' type clear span building in precast reinforced concrete has been designed in accordance with the requirements of the B.S. Code of Practice C.P.114, for industrial use. From Marley Concrete Ltd.

















CURRENT MARKET PRICES (LONDON)

(These prices apply to material purchased in the quantities named or otherwise as might be expected) for a new building of moderate size).

May, 1956

AGGREGATES A	ND SAND	BRICKLAYERS' SUNDRIES—
		AIR BRICKS 9×3 in 9×6 in 9×9 in 12×9 in
Charle de de	2/ 1.11 1	Iron each 2/1 3/5 5/2 6/10
inch screened shingle	21 /2 /1 /2 1	Galvanized do. do. 3/9 6/- 9/- 12/-
inch do. do	22 12	Terra Cotta do. 1/3 2/7 5/6 10/10
inch granite chippings		Chimney pots, Terra 1ft 2ft 3ft 4ft
Sharp washed sand		Cotta (11 to 25) do. 7/3 12/8 28/9 49/9
	. 22/6	
Broken brick	20/2	PARTITIONS—
1½ inch shingle	00.10	18in × 9in Blocks keyed for plastering
Cartage of muck	0.14	Per yard super in 6 ton lots 2in 2 in 3in
		In solid clinker including any half blocks 3/9 4/4 5/3 In cellular clinker blocks 3/11 4/7 5/3
BUILDING MATERIALS AS D LONDON		In hollow clay blocks 4/4 4/7 5/4
CEMENTS packed in paper bags	Per ton	Clinker blocks in small quantity 5/7 6/7 7/11
Portland in 6 ton lots	101/6	Intermediate quantities in all types may be had at intermediate
Do., from 1 ton to 5 tons 19 cwt. do		prices. Smooth in lieu of keyed faces extra cost per side 3d, per yd super
Do., Rapid hardening (6 ton lots). Do. (but 1 ton to 5 ton 19 cwt.)	112/-	smooth in new or keyes races extra cost per side sat per ya super
Cement "Aquacrete" (do.)	124/-	SINKS—
Do., "417" or "Polar" (do.)		Fireclay white glazed in and out—standard quality
Do., "417" or "Polar" (do.) Do., "White" I ton (lots)		24 × 18in 30 × 18in 30 × 20in
		London pattern, no overflow, 69/6 86/6 96/-
	32/- (1 ton loads) deliv'd	6in deep
Hydrated including 12	29/6 (2/3 do.) do.	Belfast, plain edge, 10in deep 83/3 137/6 185/6
	19/6 (4/5 do.) do.	THE LANGUAGE BLANK CONTRACTOR OF THE PARTY O
Ground bags 11	17/6 (6 do.) do.	FLUE, LININGS, PLAIN, CIRCULAR (FIRECLAY)—
PLASTER-		Foot lineal Each Straight Bends
Keenes, coarse, pink (2 ton lots)	206/3 ton	9in diameter 3/11 11/9
Do. do. white (do.)	212/3 do.	10in do 4/11 14/9
Sirapite, do. (2 ton to 3 ton 19 cwt le		12in do
Do. finish (do.) Hardwall, do (do.)		9in diameter, beaded end, 12in high 5/4
my .	161/6 do 147/9 do.	
Do. do. white (do.)	****	FLUE PIPES AND FITTINGS—
fin Plaster baseboard (25 to 75 yard	ds) 3/- Yard Sup.	Heavy asbestos type, 6ft length 16/6 22/- 28/-
in Do. (150 to 299 yards)	2/8 do.	Heavy asbestos type, 6ft length
3½ in Jute scrim (100 yd roll)		Do. bends 6/2 7/10 9/4
Cow hair (under 3 cwt)	97/6 cwt	Light asbestos type, 6ft length 13/6 17/- 22/-
FIRECLAY—		Do. 3ft length 6/9 8/6 11/-
m. 1 11 1 11 11 11 11 11 11 11 11 11 11 1	176/9 ton delivered	Bends
Fire cement		Baffler 13/4 15/10 16/8
BRICKS		DRAINAGE GOODS
BACKING BRICKS (in truck loads)	-	GLAZED STONEWARE STANDARD LIST
	13/- per 1,000 delivered	4in 6in 9in
	15/- do.	ORDINARY TYPE—EACH Pipes in 2 feet lengths 1/8 2/6 4/6
	33/- do. 10/6 do.	Pipes in 2 feet lengths
White 19	92/- do.	Junctions (4in on 4in, 6in on 6in, 9in
Southwater engineering (No. 1) 3	79/- do.	on 9in 4/2 6/3 13/6
Firebricks—2½ inch 7	7/- per 100 delivered	Gullies with 4in outlets 6/3 6/10½ 11/3
	0/9 do.	4in horizontal inlets 2/- 3/- 5/- 4in vertical ditto 3/- 4/- 7/-
STOCK BRICKS—		4in vertical ditto 3/- 4/- 7/- Black iron grids 9d 1/5 2/9
	81/6 per 1,000 at Works	Adjustment to Current Cost
	16/- do. 37/- do.	2 ton lots Less than 2 ton lots
Add for delivery—approx. 45/- pe		or more
FACINGS (ex truck or lorry)—	and in total tours	100 pieces Unger
	38/- per 1,000 delivered	"Best" pipes and fit or more 100 pieces
	10/- do.	tings. Percentages to add 85% 117½% 130%
Blue pressed, 2\fin 56	62/- do.	Further percentages to be independently added in respect of:
	76/- do.	British Standard pipes, etc., 10. "Best" Tested pipes, 371.
5375 7. 1 4	10/- do.	British Standard Tested, 47½.
D 1 - 1 - 146	04/- do. 80/6 do.	
	80/- do.	IRON DRAINAGE GOODS-
	97/6 do.	Each 4in 6in
Do. double headers 182	21/3 do.	Cast iron pipes, 9 feet long 73/3 108/-
Breeze fixing bricks	29/- per 100	Do. 6 feet do 52/8 82/-
Fire tiles and lumps	33/- foot cube	Do. 4 feet do 40/8 63/6
Wall ties— $8'' \times \frac{3}{4}'' \times \frac{3}{16}''$, black Cement mortar (1:3) hand-	71/3 per cwt	Do. 2 feet do
	92/- yard cube	Junction
	/ Jack out	

CURRENT MARKET PRICES (Continued)

	DRAIN	IGE G	OOD	S-C	ontinue	1	
GULLEY I	PARTS_				4in	6in	
Trans his	gh level inve	rt			30/3	82/-	each
nlet bellm	gh level, inve				16/-	31/11	do.
I ke with	one vertical	branch			27/10	52/3	
Do. with	two do.	Cidilon			75/5	109/9	
Extra for Se	ealed cover	**			9/8	109/9	do.
					-		
RAINWAT	ER SHOES tical inlet and				4in 39/8	6in	
with vert	icai iniet and	repate	a top	* *	20/11	79/- 20/11	eacn
Extension	i piece, bin n	ign			20/11	4/2	do.
Loose sol	n piece, 6in h e coated grati lid coated co	ver		**	4/2 5/6	5/6	do.
					-/-		
MANHOL	E CHANNE Each	LS, W	HITE	GL	AZED- 4in	- 6in	9in
Straight	2 feet long				16/6	24/3	
Taper di	tto.	* *			27/6	27/6	41/9
Rends m	ain half secti	on			32/-	46/3	76/-
Ditto br	and, nam secu	OII		* *	19/9	27/6	70/
Ditto, dit	to three and	rters d	litto		27/6	44/-	
Lunctions	cingle	11015, 0	iiiio		26/6	46/3	
Ditto, do	2 feet long tto ain, half secti anch, ditto tto, three qua s, single puble				36/3	62/9	_
						-	-
	GLAZED CI on standard			100	pieces)		
					4in	6in	9in
Half-rour	nd main chan	nei (2f)	long		2/9	4/2	7/4
Extra for	stop ends	* *			2/9	4/2	7/4
Extra for	outlets			**	5/5	8/2	
Channel	stop ends outlets bends with sp	played o	ends		8/2	12/3	-
i nree-qu	arter section	do.	••	**	10/10	16/4	
MANHOL	E COVERS-	-					Black
$24 \times 18i$	n Light foot	traffic				2 5 10	9/6 eacl
Do.	Strong do.					5	1/- do.
Do.	Light car tra	ffic				10	5/- do.
Do.	n Light foot Strong do. Light car tra Road traffic			* *		16	0/-do.
4in Mics	steps	h air	inlets		8/2		
4in Mics	a value fres	h air	inlets			р	do. er lb. do.
4in Mics	a valve fres s,) s hemp caulking acked hair fe	h air	wide			per	do. er lb, do. ft rur
4in Mics	a valve fres	lt, 4in	wide		14/6 7/3 1/5½ 9d	per	do. er lb, do. ft rur
4in Mica (L.C.C Plumber' Gaskin, o Canvas b	a valve fres	it, 4in	wide MATE		14/6 7/3 1/5½ 9d		do. er lb, do. ft rui
4in Mica (L.C.C Plumber' Gaskin, o Canvas b	a valve fres	it, 4in	wide MATE	ERIAI	14/6 7/3 1/5½ 9d	uantity	1 to
4in Mica (L.C.C Plumber' Gaskin, o Canvas b	a valve fres .)s hemp caulking acked hair fe ROOI LATES (deli	it, 4in	wide MATE	Ful	14/6 7/3 1/5½ 9d LS Q	uantity 100 to 499	1 to 99
4in Mica (L.C.C. Plumber' Gaskin, o Canvas b	a valve fres s hemp caulking acked hair fe ROOI LATES (deli	FING !	wide	Ful Load	14/6 7/3 1/5½ 9d LS	uantity 100 to 499	1 to 99
4in Mica (L.C.C Plumber' Gaskin, C Canvas b	a valve fres s hemp. caulking acked hair fe ROOI LATES (deli	FING I	wide	Ful Load	14/6 7/3 1/5½ 9d LS Q I Is	uantity 100 to 499 er 100	1 to 99 per doz
4in Mica (L.C.C. Plumber' Gaskin, G Canvas b	a valve fres s hemp. caulking acked hair fe ROOI LATES (deli	FING I	wide	Ful Load	14/6 7/3 1/5½ 9d LS Q I Is	uantity 100 to 499 er 100	1 to 99 per doz
4in Mica (L.C.C. Plumber' Gaskin, G Canvas b	a valve fres s hemp. caulking acked hair fe ROOI LATES (deli	FING I	wide	Ful Load	14/6 7/3 1/5½ 9d LS Q I Is	uantity 100 to 499 er 100	1 to 99 per doz
4in Mica (L.C.C. Plumber' Gaskin, Canvas b WELSH Si Sizes in incl 22 × 1	a valve fres s hemp. caulking acked hair fe ROOI LATES (deli	FING I	wide	Ful Load	14/6 7/3 1/5½ 9d LS Q I Is	uantity 100 to 499 er 100	1 to 99 per doz
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4in Mica (L.C.C. Plumber' Gaskin, C Canvas b WELSH Si Sizes in incl 22 × 1 20 × 1 18 × 1 14 × 14 ×	a valve fres s hemp. caulking acked hair fe ROOI LATES (deli	FING ! vered)-	wide	Ful Load er 1,0 2070/1839/1287/1020/670/335/	14/6 7/3 1/51 9d LS	uantity 100 to 499 er 100 280/- 250/6 173/6 138/- 95/9 42/9	1 to 99 per doz 37/- 33/- 23/- 18/3 12/9 5/9
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4in Mica (L.C.C Plumber' Gaskin, G Canvas b WELSH Si Sizes in incl 22 × 1 20 × 1 16 × 1 14 × 14 × TILES (Br 10½" × 6	a valve fres s hemp caulking acked hair fe ROOI LATES (deli hes 1 0 0 4 2 rosley and 5 4 6 Machine r	FING 1 vered)	wide MATE	Ful Load er 1,0 2070/1839/1287/1020/670/335/	14/6 7/3 1/5½ 9d LS Q 1 ls 000 pp 	uantity 100 to 499 er 100 280/– 550/6 173/6 138/– 95/9 42/9	1 to 99 per doz 37/- 33/- 23/- 18/3 12/9 5/9 er 100 9/- 6/9
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4in Mica (L.C.C Plumber' Gaskin, of Canvas be well Si Sizes in include 22 × 1 20 × 1 18 × 1 1 16 × 1 14 × 14 × 14 × 14 × 14 × 1	a valve fres s hemp. s hemp. caulking acked hair fe ROOI LATES (deli hes 1 1 0 0 4½ 1 2 1 2 2 3 4 4 2 4 2 4 3 4 4 3 4 4 4 4 4 4 4	Stafford made faced es	p p p p p p p p p p p p p p p p p p p	Ful Load er 1,0 2070/0 335/1287/1020/0 335/	14/6 7/3 1/51 9d LS Q 1 ls 800 pp 	uantity 100 to 499 er 100 er 100 250/6 173/6 138/- 95/9 42/9 0 pc 3 3 4 42/9 0 Pe 10 7/4\{\} yar 17/- grc 51/6 d	1 to 99 per doz 37/- 33/- 23/- 18/3 12/9 5/9 er 100 9/- 6/9 en r 100 9/6 d supersss o.
4in Mica (L.C.C Plumber' Gaskin, o Canvas b WELSH Si Sizes in incl 22 × 1 20 × 1 18 × 1 14 × 14 × TILES (Br 10½" × 66 Do., hand Hips, val Plain con Sheeting asl ½in × 16 ¼ 7½in × 1 7½in × 7½ Washers, ro Do.	a valve fres s hemp. s hemp. caulking acked hair fe ROOI LATES (deli hes 1 1 0 0 4½ 1 2 1 2 2 3 4 4 2 4 2 4 3 4 4 3 4 4 4 4 4 4 4	Stafford made faced es	p	Ful Loader 1,0 (1) (1) (1) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	14/6 7/3 1/51 9d LS Q 1 ls 000 pp 280/- 330/- er 1,000 177/-	uantity 100 to 499 er 100 er 100 250/6 173/6 138/- 95/9 42/9 0 pc 3 3 4 42/9 0 Pe 10 7/4\{\} yar 17/- grc 51/6 d	1 to 99 per doz 37/- 33/- 23/- 18/3 12/9 5/9 er 100 9/- er 100 9/6 d superiss o. o.
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4in Mica (L.C.C Plumber' Gaskin, o Canvas b WELSH Si Sizes in incl 22 × 1 20 × 1 18 × 1 14 × 14 × TILES (Br 10½" × 6 Do., hand Hips, val Plain con Sheeting asl ½in × 16 7½in × 1 1000 Sanded b Ditto, bu Inodorou Inodorou	a valve fres s hemp. s hemp. caulking acked hair fe ROOI LATES (deli hes 1 1 0 0 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1	Stafford nade faced es ated, 66 ccrews (and nuvanized inous	MATE production produc	Ful Loader 1,0 0 10 10 10 10 10 10 10 10 10 10 10 10	14/6 7/3 1/51 9d LS Q I Is 000 pp 	uantity 100 to 499 499 280/- 250/6 33/- 34 27/4 4/9 4/	1 to 37/-33/-23/-18/3 12/9 5/9 er 100 9/6 d super 500. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
4in Mica (L.C.C. Plumber' Gaskin, of Canvas b WELSH Si Sizes in incl 22 × 1 20 × 1 18 × 1 16 × 1 16 × 1 16 × 1 16 × 1 16 × 1 16 × 1 16 × 1 10 × 16 v Flain con Sheeting asl 10 × 16 v Washers, ro Do. COOFING Sanded b Ditto, bu Inodorou Ditto, see Underlimi Sheathing Sheathing	a valve fres a valve fres shemp. Shem	Stafford made faced es ated, 66 ccrews (acrews	p p p p p p p p p p p p p p p p p p p	Ful Loader 1,0 0 10 10 10 10 10 10 10 10 10 10 10 10	14/6 7/3 1/51 9d LS Q I Is 000 pp 	uantity 100 to 499 280/- 250/6 138/- 95/9 42/9 0 per doz 0 Per 17/4\{\frac{1}{4}\} yar 17/- gr 51/6 d 4/9 d 2/- d	1 to 90 per doz 37/- 33/- 23/- 18/3 12/9 5/9 er 100 9/6 d super 00. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

1:2:4-3	in material, f		fair exposed fac mild steel rod r	
	Per foot	lineal deliver	red to site	
4½in × 6in 4/-	9in × 6in 6/-	9in × 9in 7/8	13½in × 9in 9/6	18in × 9in 11/6
-		STONE		-

PER FOOT CUBE in random blocks not exceeding 20ft cube in each, free on rail London.

Monks Park 8/1½
St. Aldhelm 9/1½
Portland brown Whitbed 8/5
Other stone but delivered to sites.

Doulting 8/11, Beer 8/5 TIMBED

Carcassing quality Joinery quality Plain edged unso				andard £105 0 and up	Per cubic 12/8 13/4	foot
per square	rteu ii	ooring,	3in 90/-	1in 110/-	11in 138/-	1½in 165/-

Annual Control of the					
SUNDRIES—		Dia.	3in	6in	9in
Black hexagon bolts, nuts and washers. Each		lin lin lin	7d 11d 1/3	10d 1/2 1/8	1/- 1/6 2/-
Sashline, hemp, good que Per Yard Run	uality	}	No. 6 9d	No. 8	No.10
Floor brads				71/-	per cwt
Cut Clasp Nails					per cwt
Steel ordinary screws	I" No	. 8 3/-	2" No.	8 5/2	per
Brass, ditto	Do.	10/8	Do.	18/9	gross

HARDWOOD-				Per ft	super	Рег
Prime			 	2in	1in	ft cube
African mahogan	y		 	2/4	2/6	28/-
Honduras ditto			 	3/3	4/-	50/-
Portuguese Guine	a ditto)	 	3/1	3/3	36/-
African walnut			 	2/5	2/7	29/-
Australian ditto			 	5/6	5/10	65/-
English oak			 	4/3	4/6	50/-
Yugoslavian ditto)		 	3/4	3/7	40/-
Burma and Siam	Teak		 	5/-	5/9	65/-

DOORS.—STANDARD	TYPE SOFTWOOD
Each in quantities 12 or more 1\(\frac{1}{2}\) in finish, 4 horizontal panels 2' 3" wide 41/-2' 6" do. 42/3 2' 9" do. 44/6	s moulded both sides 6ft 6in high
FLUSH DOORS, 13in thick, ply faced both sides, lipped edge. All 6ft 6in high. 2' 3" wide 47/6	2in (nominal) as last but upper panel prepared for glazing 2' 6" wide 59/- 2' 9" do. 62/- 2in (ditto) all as above but in
2' 6" do. 49/6 PANELLED DOORS:	3 panels. 2' 6" wide 55/9 2' 9" do. 58/3
see B.S. 459—Part 1.	2in (ditto) all as above but in 2 panels.
FLUSH DOORS: see B.S. 459——Part 2.	2' 6" wide 51/3 2' 9" do. 53/6

IRO	NMON	GERY			
	2in	3in	4in	5in	6in
Cast iron Butts, per pair Hinges, spring, single	1/2	2/-	3/2	5/11	8/5
action regulating, jap- anned, each	-	8/-	12/-	15/3	21/-
spring only, each Do. blank only, each	_	16/6 8/9	21/-	25/9 17/9	33/9 21/6

641 THE ARCHITECT and Building News, 7 June 1956 PRICES (Continued) CURRENT MARKET DOUBLE SOOT DOORS AND FRAMES-IRONMONGERY—Continued 18in 12in 24in 36in Fitted with brass turnbuckle 9in×9in 12in×9in 14in×12in Tee hinges, (japanned) 28/9 49/6 19/6 and cast key 2/-3/10 per pair Do. but stronger, per 3/4 6/1 8/3 SLIDING DOORS, GATES AND PARTITIONS-Hook and Ride hinges, each— Factory sliding doors in two leaves contain-24/10 per pair BOLTS—each 13/4 16/3 ing about 100 square feet with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and in-3in 4in 6in 8in 10in 12in Cabinet, barrel, straight 1/4 1/7 2/1 or necked cluding hanging tubular track and gear Square spring, with 15/6 foot super complete brass knob ... Factory entrance gates with mild steel frames Tower bolts .. 4/10 clad with 2in mesh chain link complete do. 2/9 3/11 5/2 6/7 8/1 Barrel bolts Steel partitioning, glazed (rough cast) and stove enamelled Add to Tower or Barrel 18/6 do. bolts if necked 1d ad 1d1d1dLOCKS—each— Rim lock, 2 lever, wrot case Brass furniture STEEL ROOF LIGHTSbrass bolt and bushing 12/9 or Bakelite do. Lanterns with vertical sides, and hipped roof Bakelite finger-plates 2/4 glazed with ½in cast glass and lead flashed Skylights of similar construction (27ft super) 14/- foot super 8/9 Mortice lock, 2 lever, bushed 12/9 Brass furniture 20/or Bakelite do. 3/10 Cylinder latches, japanned case 16/each Brass sash fastener HIGH GRADE DOMESTIC BOILERS Casement fasteners (malleable) do. 1/6 Coke Fed. Performance 20 to 40 gallons raised from 40 °F to Do. stays (do.) do. 140 °F per hour as under. Do. stays Axle pulleys (brass face, iron wheel) Do. as last, but with brass wheel, 1\(\frac{2}{3}\)in Sash line, No. 8 Anchor yellow label 5/4 do. £ s. d 6/8 do. 20 gallons per hour 15in wide, 23in high Plain cast iron black finish per yard 1/-9 0 0 Ditto, in cream mottle METAL GOODS British rolled steel joists ex mills to basis sections on site (6in \times 5in, 8in \times 5in or 6in, and 10in or 12in \times 6in) finish including side jackets .. 13 0 0 £34/0/0 per ton 25 gallons per hour 19in wide, 22in high In cast iron as before and Extra cost over basis for following sections— 9in or 18in×7in, 14in×5½in, 15in×5in, 14in or 15in or 16in or 18in×6in, 20in base plate 11 10 0 Ditto in cream mottle with 16 17 0 side jackets and base ×61in, 20in×71in, 10in or 12in or 14in in cast iron, etc., as last 40 gallons per hour 10/or 18in×8in per ton 5in×4½in, 7in×3½in, 13×5in 12in×5in, 22in×7in 6in×4½in, 7in or 8in or 9in×4in, 10in× 22in wide, 23in high 18 5 0 Ditto in cream mottle all 20/do. as last ditto 24 13 0 Sin do. 4in×3in, 10in×4½in 30/do. GAS, WATER AND STEAM TUBES 5in×2½in, 5in×3in . . . 6in×3in, 24in×7½in 35/do. Standard-List) (From 40 do. lin & Internal $3in \times 3in$ 50/-do. Diameter 2in lin 4¾in×1¾in 3in×1¾in, 4in×1¾in ¼ mild steel reinforcing rods ex mill d/d 65/do. Tubes per ft 51d 11d 1/10 70 3/2 2/7 5/2 4/3 do. Bends each 8d 9d 1/2 1/3 1/74 2/71/2 £35/10/0 do. Elbows, sq. do. 10d 11d 1/1 16 Do., round do. /10 4/8 Extras per ton 11d% in diameter in size 59/6 1/7 3/3 2/6 5/6 3/1 per ton Tees do. 2/2 /3 1/10 72/ do. 2/9 2/4 6/7 10/6 Crosses do. in 92 do. Backnuts do. 2d 31d 5d . . 132/is in do Sockets do. 3d 3d4d 6d8d101d 1/3 lin do. Sockets. 192/ do. do. 4d 5d 6d7*d* 9d 1/-1/4 2/-& in dimin. Extras for length PERCENTAGES ON OR OFF ABOVE 7/6 Sft to 3ft do In quantity and in random lengths. 3ft to 2ft do. . . TUBE-2ft 22/6 do. -121% Class A (light) Galvanized 40ft to 45ft 15/do +20% +37% 45ft to 50ft 22/5 Class B (medium) Do. Do. do. $-\frac{24}{12}\%$ **Bolts and Nuts** 90 Class C (heavy) Do. Do. per cwt Trench covering, including trays and rebated frames, 9in wide 14in deep FITTINGS-23/-+35% foot run Lightweight Black Galvanized Do., but 12in wide Do., but 14in wide 24/9 do. Heavy +309Black +45% Do. 27 do

* *

METAL SUNDRIES

In 25 yards lineal rolls inclusive of line wire,

99/-69/9

50/

42

115/6 81/3

58

35/6

32/-

50/-

Height in inches-

48 132/3

93

66/6

do.

do.

each

198/-

139/-

164/9

116/3

83/-

Do., but 18in wide

CHAIN LINK FENCING-

glass lenses

2in mesh

12

101 wire gauge

do.

do.

Cast iron pavement light filled with 4in × 3in

20 gauge galvanized iron trunking and straps 24 gauge galvanized Tallboy 6ft high 9in diameter with 9in × 12in base

in wrought iron plate door in four panels with stiles and rails on both sides

RAINV	VATER GOODS (Painted or Unpainted)
In	consignments of 5 cwts. and over
	From Standard List

Pipe:		2in	3in	4in	5in	6in
6ft lengths	each	12/10	14/5	18/11	24/8	31/6
3ft do	do.	7/-	7/9	10/-	13/1	16/6
Shoe, ordinary	do.	2/7	3/10	5/7	9/5	12/11
Bend	do.	3/1	4/4	6/3	11/3	14/7
Branch, single	do.	4/6	6/7	9/3	14/7	22/6
Offset, 43 in	do.	3/9	5/3	7/9	12/11	17/-
Do. 9in	do.	4/11	6/6	9/8	15/3	19/3
H.R. gutter, 6ft. length	do.	2000	6/-	8/5	10/4	13/10
Angle or nozzle	do.	-	2/6	3/1	3/9	5/4
Stop end	do.	-	9d	1/1	1/6	1/9
				Above	e plus	121%

CURRENT MARKET PRICES (Continued)

PLASTERIN	NG MAT	ERIALS		
and, lime, cement and various	us plaste	rs are pr	reviously	
under those heads— Metal lathing (\(\frac{2}{3}'' \times 24G\)) (20 Plaster baseboard \(\frac{2}{3}''\) (300 to Lath nails, galvanized	yards) 599 yard	(s)	3/8½ 2/6 1/2	sq. yard do. lb.
under those heads— Metal lathing ($\frac{1}{8}'' \times 24G$) (20 Plaster baseboard $\frac{1}{8}''$ (300 to Lath nails, galvanized White glazed tiles ($\frac{6}{8}' \times \frac{6}{8}'' \times \frac{1}{8}''$) Do, rounded on one edge Do, on two adjoining edges	} sm qu	all antity	$\begin{cases} 18/6 \text{ sq} \\ 22/6 \\ 27/- \end{cases}$. yard do. do.
PLUMBE				
lb. lead sheet (in 1-ton lots)			. 149/9	per cwi
lb. lead sheet (in 1-ton lots) ead water pipe in coils (do.) lumber's solder opper tacks		**	151/-	do. 7 lb. 9 do.
RON SOIL AND WASTE PI	PE. (50	wt lots a	nd up)	4in
each in Medium pipe, 6ft length.		14/6 1	7/2 19/3	3 21/11
oitto, 4ft length		10/5 13	2/2 13/	7 15/5
citto with oval door		17/4	8/6 21/1	24/7
unction, single		6/6	9/8 11/3	13/3
itto, with oval door .		18/6 2	1/8 24/3	3 26/3
wan necks, 4½in		6/6 10	0/3 11/9	13/9
each in Medium pipe, 6ft length into, 4ft length ends itto, with oval door inction, single itto, with oval door wan necks, 4½in itto, 9in olderbat, 2½in projection		4/11	5/1 5/4 Above plu	1 5/6 1 5/6
ALVANIZED CISTERNS,				
(Less than four) each		ga	llons	
ISTERNS— Bends over tops and corner	N	ominal ca	apacity	
plates. Riveted or welded 14 gauge 12 gauge in plate	100	150	200	300
14 gauge	180/-	243/-	296/-	424/-
lin plate	246/-	310/-	372/-	522/-
OT WATER TANKS Riveted and with handhole	20	25	30	40
12 gauge	124/- 137/3	137/- 151/-	150/- 163/-	180/- 199/3
IOT WATER CYLINDERS-	- 20			39
Riveted, with handhole and r 12 gauge	160/-	176/-	189/-	204/6
LUMBER'S BRASSWORK	etc.		Fach	
-			Lacii	
Boiler screws, single nut .	. 1/7	2/1	3/5	5/1
Ditto, double nut	. 2/2	2/10	0 4/8	6/10
Cap and lining	. 1/2	1/7	2/-	2/3
Ball valves, screwed iron	15/10	23/9	4/6	8/-
Boiler screws, single nut Ditto, double nut Cap and lining Plumber's unions Ball valves, screwed iron Ditto, fly nut and union ib valves, crutch top	. 17/1	25/6	-	
screwed iron Ditto, but screwed boss	. 10/3	15/-	-	-
ton values screwed iron	8/0	12/9	Transaction .	_
Ditto, screwed iron and union		16/3	27/-	_
Ditto, double union .	. 11/6	17/-	31/3	_
aste, plug chain and stay .		1 lin	8/- 2in	9/- 4in
Caps and screws	. 3/1	3/10	5/6	Autom
Sleeves, long		3/10	7/8 4/3	11/1
Thimble		3/10	4/10	10/6
Full way gate valves, hot			4/10	10/1
pressed	. 21/9	30/6		-
Lead 7 lb P. trap		11in 7/10	1½in	2in
Ditto. S. trap		9/8	10/3 12/8	17/10
Lead 6 lb P. traps with 3 in s	seal	8/9	10/7	
Ditto, but S. traps, ditto . Wire balloon guards, copper.	2in 3/1	10/11 4in 3/4	13/3	_
Ditto, galvanized iron, 2in Hair felt, 34in × 20in, 24 of Boss white jointing compou	1/11; 4ir z, 6/- sh	eet 2/1		
	-1 2/	b		
Boss white jointing compou	nd, 2/-	10		
Boss white jointing compour Gaskin, 1/5½ lb Hemp, 7/	3 lb	10		

COPPER	TUBES-Ex	tract fro	om B	S 650	0/1944		
COLLEK	International Control of the Control	1	(: b	11244		
NI1	Interna	II WORK	(sen	ii-nard).	3 CV	t lots
Nominal	Outside	Causa	W	eignt	Pri	ce	Price
bore	diameter	Gauge	10	per it	pe	r ID	per It
11	ncn 0.506	10	0	.27	per	ice	pence
5 III	0.390	10	0	20	34	- 1	14.73
in in	1-112	19	0	63	46	8	19.94
Tin	1.112	10	0	76	45		30.77
1 I in	1.512	10	0	-01	40		44.50
1910	2.129	17	1	.40	56	15	70.00
2111	2.120	1/		40	31	8	10.00
All er	nds copper t	o coppe	er				
Eac	h lin	3in		lin	11in	1 lin	2in
Straight	1/9	2/6		3/11	5/4	6/10	9/10
Bends .	4/7	5/8		8/1	11/1	17/4	24/4
Tees .	4/21	4/11		7/11	11/7	16/6	23/3
Brackets	ch lin 1/9 4/7 4/2½ s (Brass) 2/5	2/10		3/4	ment .	-	
-							
		G	LAS	5	Dor 6	oot supe	reficial
F - U - 0				!	Per I	oot supe	ernciai
English, II	at drawn she	et glass	cut ti	Sizes	240%	200Z	1/22
in squar	lled and cath	adral w	hite	aut to	044	114	1/28
rigured ro	ned and cam	curai, w	nic,	cut to	10./ D	ar faat	cupar
Sizes, in	elled and cath squares (\frac{1}{2} \text{in standard } \text{in standard } \text{in standard } \text{in rough cast } \text{irred ditto } \text{wired ditto } \text{out to size, } \text{irred ditto } \text{out to size, } \text{irred ditto } \text{out to size, } \text{out to size, } \text{irred ditto } \text{out to size, } \	timto			1/53	er root	super
Lin Belled	in standard	in cours	* *		104	do.	
lin collect	, cut to size,	in squa	162	* *	1/1	do.	
lin or in	rough cast	uitto		* *	1/21	do.	
Coordina	vired ditto	* *	**	* *	1/21	do.	
Georgian	wired ditto	* *	* *		1/4	do.	
Pandad (n	arrow, broad	000000	and m	nine)	1/4	uo.	
ditto	arrow, oroac	i, C1035 a	III III	ajoi)	1/2	do	1
Reedlyte (narrow and I	aroad) d	itto		1/2	do.	
Snotlyte d	litto	nouu, u	itto		1/2	do.	
lin Calore	ex Cast ditte		* *		1/31	do.	
Calorey Si	neet (150z)				6/6	do.	
ditto	(21 07)				9/-	do.	
Flashed O	nal (15/180	7)			3/10	do	
Pot Onal	(15/180	7)			3/9	do.	
Tot Opai	narrow, broad narrow and b litto ex Cast ditto heet (15oz) (21 oz) pal (15/18oz) (15/18oz)	.,	**		2/2	uo.	
POLISHE	D PLATE C	LASS ((Tari	ff) Cut	to size		
Per Superí	icial foot.				-		
					Gene	eral Gla	zing
In plates i	not exceeding	Z:					
2ft supe	r in each	* *				3/7	
5ft ditto				* *	* *	4/5	
45ft ditt	o (unless ex	tra sizes	s)		* * *	5/1	
100ft di	not exceeding r in each to (unless ex tto (ditto) s, i.e., Plates	**	**	00 6	* *	5/6	•
THEIR SITE	So leves I letter	o cheece	errab .	1200 880	amper .	or 160in	one
way or	96in both wa	ays at h	igner	prices			
	DECO	RATING	c M	ATEDI	AT		
	n Paint , ceiling , washable allic Paint sting Paint ck	ALLE E EL AL	. 14H	- I LINE	Dei		Toris.
Almerica	- Defect				Price	0	Unit
Aluminiun	n Paint		* *		37/6	Ga	llon
Distemper	, ceiling	* *	* *	* *	130/-	CW	ı
Distemper	, washable	* *			120/-	do).
Cald	ili. p	* *	4.5	* *	00/-	Ga	non
Gold Met	allic Paint	* *			86/6	de).
Heat Resi	sting Paint	* *	* *		30/-	de).
Japan, bla	ck	* *	* *		23/6	de),
Knotting		* *	* *	* *	40/-	de).
Linseed O	11	* *			19/7	do).

Distemper, ceiling			37/6	C-11
			 3//0	Gallon
Distance was to be		* *	 35/-	Cwt
Distemper, washable			 120/-	do.
Enamel			 60/-	Gallon
Gold Metallic Paint			 86/6	do.
Heat Resisting Paint			 50/-	do.
Japan, black			 23/6	do.
Knotting			 40/-	do.
Linseed Oil			 19/7	do.
Boiled, ditto			 19/11	do.
Proprietary Paints (good	class)	_		
Distribus			 57/6	do.
Delmina			 62/-	do.
I Indonesat			 56/-	do.
Paperhanger's Paste .			 36/6	Cwt
Petrifying liquid			 8/9	Gallon
Destina			 58/-	Cwt
Size			 9/3	Firkin
Terebine			 16/-	Gallon
Turpentine substitute .			 6/9	do.
Varnish, oak, copal inside	use		 33/-	do.
Ditto, ditto, outside use			 38/-	do.
Ditto, white, eggshell, fla	t		 44/6	do.
White lead mixed paint			 72/-	do.
White lead			 198/-	Cwt
Whiting			 13/3	do.

IN SHOPS



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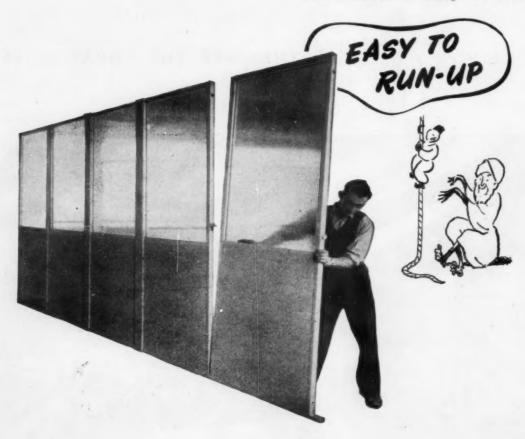
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CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excent, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which exceed on to More 1846 on the calculation of these prices is taken from the foregoing tables

which carried up to May, 1956.	
(COPYRIGHT) ESSENTIAL ON-COSTS	Sectional Lintols and Columns and Braces and inches beams casings projections
	Up to 36 . 4/7 4/11 4/11 Per cubic ft
Fees payable to L.C.C. for District Surveyor: For new buildings of ordinary construction ex-	36 to 72 A/A A/8 A/10 do
ceeding 5,000 cubic feet, for every 1,000 feet or £1/10/-	72 to 144 4/3 4/6 4/9 do. over 144 4/1 4/4 4/8 do.
part of same up to 1,000,000 cubic feet $1/6$, $at + 1/6$	over 144 4/1 4/4 4/8 do. Walls 6in thick
together with an additional sum of £1/10/ After which allow per 1,000 do at $+ 9d$.	Do. 9in thick 25/- do.
For alterations and additions:	Suspended floors average 6in thick 18/1 do.
When £100 the sum of £2/10-, plus $12/6$ for $\frac{£2}{10}$ -at	
every £100 or part of same, up to £1,000 $\begin{cases} 12/6 \text{ per } 10 \end{cases}$ When over £1,000 the sum of £8/2/6, and for $\begin{cases} £8/2/6 \text{ at} \end{cases}$	Per cwt 1 in 1 i
every £100 or part of same beyond $3/-\ldots$ $+3/-$ per 10	In walls 90/- 76/9 72/- 63/3
Public buildings: Fees as above but plus 50% + 50%	In columns 90/8 81/0 /0/3 00/-
Fees in respect of means of escape in case of fire are 1/5th of the above or £2 if greater or in	FORMWORK and Supports (4 times use)— Floor soffits Beams Walls Columns
the case of a one-storey building £1 1/5th	19/- per Yard 2/6 2/4 2/4 per super foot
Steel framed or r.c. buildings double +100%	BRICKWORK
Allowance to some National January Holiday with	BRICKWORK per YARD superficial reduced to ONE BRICK
Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk,	in thickness (scaffold to add)— In 1:3 cement mortar Flettons or other similar at 113/- per 1,000 39/7
Travelling and Guaranteed Week is made in the rates	Mild Stocks or do., at 226/6 per 1,000 53/10
attached to the items.	Second Stocks or do., at 261/- per 1,000 57/7
Allow for Fire Insurance do	Southwater engineering or similar bricks, at 379/- per 1,000 74/3
Allow for hoarding, or similar licences in City of London say £10	
Do. under Borough Councils per each month say 2/	Deduct if 1:1:6 Cement-Lime mortar is used in
Allow for Office, Fire, Attendance on C. o W., etc. p. week say £	lieu of 1: 3 Portland Cement mortar 2d Add if brickwork commences above ground level 4/-
Supervision, etc., assessment Contract value	Do, if in backing to masonry including cutting
£4,000 £6,000 £12,000 £24,000 £50,000	and waste for bonding 3/3
Cost. of admin 6% 5% 5% 4½% 4½% Agent or foreman	Do. If circular-on-plan
(each) 5% 4½% 3½% 2½% 1½%	BRICKWORK IN THICKNESS NOT REDUCED—
Timekeeper or	1 Brick 11" Hollow
Watchman (each) 2½% 2½% 1½% 1% ½%	Brick, Half- finished with 2"
SPOT ITEMS AND DEMOLITION, ETC. Per foot run	Per yard superficial on edge Brick fair both cavity and walls sides G.I. tics
Hoarding erected and removed 19/-	In Flettons or similar 17/2 21/11 40/7 46/3
Planked gangway with handrail, etc. do 10/-	In second stocks or do. 22/6 29/9 55/8 61/8
Proper gantry do	Add: for pointing as work proceeds, per
Needling, strutting and shoring including all labours Per foot cube	
and use and waste in erection and removal 19/-	Thickness to old walls, includ- Fletton Stock
1 1è 2 Per	ing cutting, toothing and bond- ing to same an average total
ALTERATION-DEMOLITION- Brick Brick Brick yard	
Cutting out cement concrete or (Per foot super) cube	Do. all as last but an average super
brickwork in small quantities . 1/3 2/5 3/5 61/-	total thickness of 1½ bricks 75/- 96/- do.
Do. if either in very small quantities or reinforced 2/2 3/11 5/8 89/11	WALLS BUILT IN SUPERIOR BRICKS— In 1:3 Cement mortar, fair faced and pointed on both sides as
Debris into baskets and removed	the work proceeds:— Half-Brick One Brick
from inside to outside of bldg $3\frac{1}{2}d$ 7d 9d $13/-$	In first quality Stocks at 282/- 36/3 64/7 Per yard
SCAFFOLDING (Avg. 45ft high) Period	In red facings at 310/ 36/- 64/6 super In bluepressed facings at 562/- 56/8 98/11 do.
Per yard superficial 1 month 3 months 5 months Putlog type—4' 6" lift 6/2 8/3 10/8	GENERAL AND SUNDRY—
Do6' 0" do. 4/7 6/4 8/1	Cut tooth and bond new brickwork to old 4/11 per ft
Independent type—4' 6" lift 7/11 11/4 14/10	Damp proof course, double slate, horizontal 3/9 super
Do. $-6' 0''$ do $5/8$ $8/2$ $10/3$	Do., as last, but vertical
EXCAVATION Common Loamy Gravel Rock of	Frames, bed and point in cement mortar, one side 4½d per ft run
Per Yard Cube. By hand Soil Clay or Clay similar Reducing levels 6/1 7/3 8/6 56/9	Window board of $6'' \times 6'' \times \frac{7}{4}''$ rounded on edge
Reducing levels 6/1 7/3 8/6 56/9 Surface trench not exceed-	quarry tiles, bedded, pointed, cut and fitted 3/6 do. Terra cotta air bricks built in and 9"×6" 9"×9"
ing 5ft deep 12/5 14/10 19/9 70/7	pointed, including flue 5/6 10/- each
Do, from 5ft to 10ft 22/8 25/6 30/6 77/— Do, from 10ft to 15ft 28/3 31/1 36/— 84/3	Chimney pots, plain red, set and 1ft high 2ft high
Do, from 10ft to 15ft 28/3 31/1 36/- 84/3 Fill in and ram 4/10 5/6 5/6 5/6	flaunched in cement mortar 14/9 21/- each Metal windows, assembled, Up to Sft 5ft to 10ft
Barrowing 25 yds 2/10 3/2 3/2 3/7	hoisted and fixed, lugs cut and super super
Load vehicles and tip 8 miles away 16/- 16/- 17/- 17/9	pinned and frames bedded and
	pointed one side in cement mortar
PLANK AND STRUT To trenches, in normal ground To 5ft 5 to 10ft 10 to 15ft deep deep deep	10ft to 20ft 20ft to 40ft
Per Foot Super 7d. 8\flackdright deep	super super
CONCRETE 11 Ballast Aggregate Per yard cube	Leaving holes through walls for Small pipes Large pipes
1:3:6 Cement concrete in foundations 74/-	Leaving holes through walls for Small pipes Large pipes pipes and afterwards making 3d per in 6d per in
Do. around grillages	good in depth in depth
REINFORCED CONCRETE 1:2:4—fin concrete, worked around reinforcement, between	Cutting do., and afterwards do. 11d do. 1/9 do.
formwork in the following (at various levels):—	Cut mortices in brickwork or concrete for bolts 1/2 per in or dowles and run in with cement grout in depth, each
Foundations and surface beds 81/6 Per cubic	Holdfasts of stout iron hoop bent holed and
Walls, 12in thick or more 88/3 Yard	screwed to frame and built in 1/4 each
Walls, 12in thick or more 88/3 Yard	screwed to frame and built in 1/4 each

MEASURED RATES—Continued	Portland cement (1:6) Per yar	
BRICKWORK—Continued	pipes and benching up on 18in wide 20in	6in 9in wide 23in wid
FACING— Extra only over common brickwork (113/- per 1,000) for	both sides—6in thick 8/-	9/6 11/6
facing with superior bricks in Flemish bond and pointing as the	SALT GLAZED SANITARY DRAIN PIPES	
work proceeds. Rustic Flettons (138/-) 3/9 per yard super	and lay and joint with Yarn and Cement Morta	er in trench.
White (210/-) 9/9 do.	Quality Quantity 4in	6in 9in
White (210/-) 9/9 do. First Stocks (282/-) 15/- do. Reds (310/-) 16/6 do.	"Best" 2 Tons or more 3/2	4/41 7/4
Reds (310/-) 16/6 do. Blue pressed (562/-) 34/10 do. If built in English bond 4dd 124% to above	over 100 pieces 3/5 under 100 ditto 3/6	$\frac{4/10\frac{1}{2}}{4/11\frac{1}{2}}$ $\frac{8/2}{8/6}$
Il built in Eligibii bolla, rina 123/0 to above	"Best Tested" 2 Tons or more 3/11	5/11 9/2
If do. half-brick stretcher bond, Less 25% off above.	over 100 pieces 4/4	6/41 10/6
COPING—	"British Standard" 2 Tons or more 3/4	6/7½ 10/10 4/11½ 7/9
All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on	over 100 pieces 3/9	5/61 8/9
both sides, built in cement and pointed as the work proceeds.	under 100 ditto 3/10	5/91 9/6
Per foot run 9" thick 14" thick In picked Flettons 6/3 8/5	"British Standard 2 Tons or more 4/1 Tested" over 100 pieces 4/8	$\frac{6/1\frac{1}{2}}{7/1}$ $\frac{9/11}{11/4}$
In first quality Stocks 7/7 11/1	under 100 ditto 4/11	7/31 12/-
In red facings 7/5 10/11	Extra for bends "Best"—Contained in 2	6/3 16/6
Plumbing angles 2d. per foot run	Extra for junction "Best" Ton lots. 4/2	6/3 16/6
Fair cutting $11\frac{1}{4}d$. do. Fair raking cutting $1/6\frac{1}{4}$ do.	-4in on 4in, 6in on ditto 6/6	9/9 27/-
Fair circular cutting 1/61 do.	6in—9in on 9in	
Fair squint or birdsmouth 1/10½ do.	IRON BRAIN PIPES—	
ARCHES	Heavy cast iron socketed and laying and	Per foot run
Extra over Fletton brickwork for forming window head with red facing bricks set on end and with foot run	jointing in molten lead—	4in 6in 13/- 18/1
44" soffits and pointing 3/7	In main runs In branches	14/4 19/8
Do, for rubbed and gauged flat arch in red rubbers foot super set in putty with fine joints		each
set in putty with fine joints 18/3 PARTITIONS	Extra over last for bends and extra joint Do. on do, for junctions and extra joint	28/- 60/6 41/6 78/-
Per yard super—	Cast iron gulley with 10½ in inlet and 4in out-	41/0 /0/
(over 100 Yards) 2in 2½in 3in	let, composed of hooper and trap, and 9in	
Concrete slab partitions in cement mortar 10/9 12/2 14/4 Hollow clay do 12/9 13/8 15/3	extension piece and 10½ in grating, and jointing all together, and jointing to drain	
Hollow clay do 12/9 13/8 15/3 Cutting and bonding at angles, intersections		175/
and ends 5d. foot run	Do. rain water, shoe with vertical inlet and	90/ 122/
PAVING 1in 1\frac{1}{2}in	inspection cover, and joint up and embed	80/- 133/-
Grano trowelled gauge $5:2$ $8/2$ $9/2$ $10/3$ yard super 1×5 in skirting, square top and cove bottom $2/10$ foot run	MANHOLE SUNDRIES—	4in 6in
\$\frac{1}{2}\rightarrow \frac{1}{2}\rightarrow \frac{1}{2}\rightarro	Salt glazed straight half-round main	
fin×6in do. skirting 1/10 foot run	Channels each Do. curved do.	5/- 7/-
Jointless flooring, in thick 20/- yard super	Do. curved do. Do. three-quarter section splayed	10/6 15/-
ASPHALT (normal conditions and fair quantity) in pitch mastic floor in B.S.	channel bends (Barrons or similar) do.	14/3 20/8
one coat on felt underlay	Heavy manhole steps galvanized do. Fix only manhole covers do.	9/9 —
on prepared concrete base 1450/48 1375/47	4in Mica flap, brass faced, f.a.i. valves	11/-
Brown Red	and fix with molten lead joint do.	38/6 —
Per yard super 12/6 13/2 15/-	ROOFER	
Unit B.S.988 Rock	CORRUGATED ASBESTOS SHEETS	
lin in two thicknesses on B.S.S. 1162/44	P.C. 7/42 per super yard, including side and	
felt underlay on prepared		144/- per square 2/- foot run
concrete base yard super 15/- 22/6 Ditto in narrow widths foot super 2/6 3/6	Adjustable ridge	3/6 do.
in skirting 6in high, angle	Barge boards	2/8 do.
fillet at bottom splayed	Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in	
and turned in at top foot run 2/6 2/9 External angles each 6d. 6d.	galvanized nails, to battens (measured	
Internal ditio each 10a. 10a.	separately)	252/- do.
Tanking or Damp Course B.S.1097/43 B.S.1418/47	Extra over last for top edge or abutment cutting Do. for double course at eaves	1/3 do. 2/5 do.
Vertical in two thicknesses yard super 22/6 30/- lin horizontal ditto yard super 13/6 23/6	Do. for verges, undercloak, bed and point	3/6 do.
Vertical in three thicknesses yard super 32/- 41/-	Do. Valley tiles including cutting and waste	11/2 40
1\fin horizontal ditto yard super 18/- 29/-	On both sides	11/3 do. 11/9 do.
Labour rounded external angle per foot run 6d. 6d.	Half-round ridge and bed and point	3/3 do.
Ditto internal angle fillet per foot run 10d. 11d.	Fixing soakers	1/6 dozen
Ditto double ditto per foot run 1/3 1/3	Bituminous felt roofing in two layers, laid	
Collars to small pipes each 3/6 4/- Ditto to large pipes each 6/6 8/-	breaking joint and bedded with hot mastic	
DRAINAGE 1 foot in depth 4/9	and finished with fine dry grit	11/6) yard
Per lineal yard 2 do 8/3	Do. but in one layer only	8/6 super Per square
Excavate trench, and plank and 3 do 19/3 strut to sides, consolidate 4 do 25/-	WELSH SLATING 16"×10" 1	8"×10" 20"×10"
bottom to fall, return fill and 5 do	3in lap, 2 zinc nails to each slate 312/6.	319/6 378/6
ram earth after drain is laid 6 do 42/11		f 1:1
and load and remove surplus. 7 do	Additional labours At tops, verges and abutments—straight 1/7	1/9 1/11
In ordinary ground — 8 do 66/3 moderately firm 9 do	Do. $-\text{raking} 2/4\frac{1}{2}$	2/71 2/11
10 do 94/8	At hips and valleys (each side) 2/41	2/7 2/11
11 do 107/5	At eaves, double course 3/2	3/5 3/11 5/- 5/9
(12 do 121/-	Do. to falls 4/9	5/- 5/9

One inch of

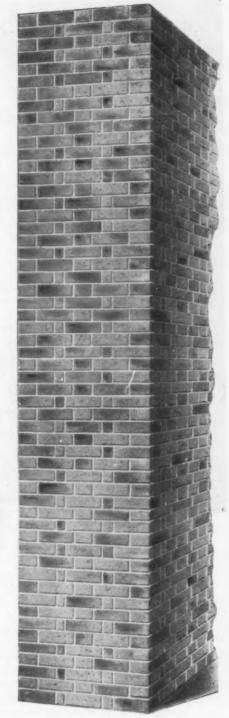
FIBREGLASS

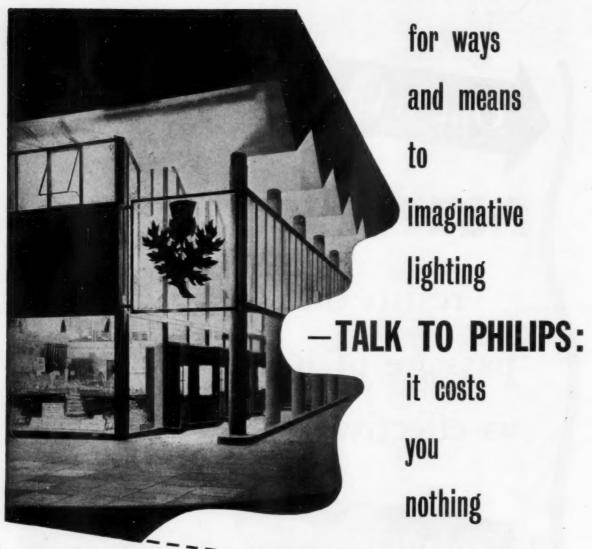
resists the passage of heat as effectively as

32 inches of

solid brickwork

What kind of filling is going into your curtain walling these days?





Many of the more imaginative lighting schemes of recent years have been the result of close cooperation between architects, electrical contractors and the Philips Lighting Design Service.

The advice and assistance provided by this Philips Service is entirely free, and the experienced lighting engineers in each Philips

branch area can call on the accumulated knowledge of the Century House staff, which includes a fully qualified architect who has made a special study of lighting in its relation to architecture and colour.

Philips will be happy to design for you there is no charge.



TUNGSTEN, FLUORESCENT, BLENDED AND DESCHARGE LAMPS . LIGHTING EQUIPMENT . RADIO & TELEVISION RECEIVERS . "PHOTOFLUX" FLASHBULES, ETC.
(LD725C)

	Do. in divisions and ends framed 2/7 2/10 3/3 3/1
Hollow tile in situ or precast units hoisted, bedded and fixed— Superimposed load Span	Add if crosstongued 6d. 6d.<
in lb per foot super 12 feet 16 feet 50 45/- 51/1	SUNDRIES—Per foot run In short In long Add for cup
Per yard super 100 46/9 54/- 150 50/6 57/6	Glazing, beads mitred around
20lb has been allowed to cover dead load in surface, finish.	and fixed with brads 6d. 4d. 2d.
Fair edge to slabs 9d. per foot run Splay cutting and waste 1/9 do.	Rounded heel or hollow 4d. Tongued and grooved angle 6d.
	Glue blocking 6d.
CARPENTER AND JOINER SOFTWOOD CARCASSING— per foot cube—	Mitres 3d. per sectional inch. Fitted ends 2d. do.
Labour, materials, waste nails, Plates Joists Rafters Trusses	
hoisting and fixing 18/10 20/1 21/8 24/3	STAIRCASE— Per ft 1½in Softwood treads with moulded nosings. 1in Super
FLOORING— Per square— ‡in 1in 1‡in Rough boarding 141/6 161/6 198/6	risers tongued both edges and glued, blocked and
Softwood batten flooring, straight	bracketed on and including two fir framed carriages
joints, splayed headings 143/- 163/- 200/6 Do. grooved and tongued 162/8 193/2 237/9	Do. but in winders 7/3 1\frac{1}{2} in crosstongued landing on framed carriages 6/-
150. grooved and tongued 102/6 193/2 231/9	2in moulded string
SKIRTING— Per foot superficial— ½in 2in 1in Wrot softwood moulded skirting with	2in do, ramped 11/9 Ends framed to newel 9/8 each Tongued and mitred angles 5/6 do. Tongued heading joints 5/6 do.
grounds and backings plugged 3/8 4/3 4/10	Tongued and mitred angles 5/6 do.
Mitres to do 3d. per sectional inch Fitted ends 2d. do.	Tongued heading joints
	Extra for curtail ends to steps, glued up and
SASHES, fanlights, casements, borrowed lights, etc.— Without With bars	veneered riser and solid blocking 100/- do. Balusters about 2ft 9in long, square and 1in 1½in 1½in
Per foot super— bars (21t sup. in	framed each end each 3/9 4/6 5/3
2in softwood rebated, moulded and	African mahogany moulded 3in × 2in hand-
fixed 3/2 5/7 Add if fitted with beads 6d. 1/6	rail. (Joints below) 8/9 de.
Add if fitted with beads 6d. 1/6 Add if hanging on butts 2/5 each	Do. ramped 18in girth (do.) 52/- each Do. wreathed do. (do.) 155/- each Joint or framed ends 11/- each
stiles, 2in sashes, oak sill Per foot super 6ft 21ft 32ft 44ft 19/- 10/7 7/11 6/2 Add if sashes in squares, about 2 feet super in each 1/6 2/- 1/11 Extra for hanging sashes with lines, weights and axle pulleys 30/3 50/3 62/3 84/3 FINISHINGS TO OPENINGS— Per foot super—Softwood linings, tongued at angles and tongued to frame including grounds and backings 3/7 4/1 5/- 5/7 4/dd if crosstongued 6d. 6d. 6d. 6d. 6d. 6d. 6d. 6d.	Rim locks and furniture 5/6 7/- do. Mortice locks and do. 11/- 17/- do. Cupboard locks 2/9 3/5 do. Casement fasteners 2/3 2/9 do. Do. stays 2/3 2/9 do. Grip handles 2/7 3/5 do. Spring catches 2/3 2/9 do. Cabin hooks 1/10 2/5 do. Floor springs including oil 47/- 60/- do. Overhead springs 14/- 16/6 do. Springhinges 11/- 13/6 do.
and with tongue at back window board including groove in sill and	SMITH AND FOUNDER
bearers	Basis framed steel joists and hoist and fix Do. but in compound girders 70/- per cwt. 80/- do.
and rounded 1/1 1/2 1/3 1/4	Do, but in stanchions 81/- do.
and rounded	Do, but in stanchions 81/- do. Trusses
and rounded	Do. but in stanchions 81/- do. Trusses
and rounded	Do. but in stanchions
Per foot run— Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	Do. but in stanchions
Per foot run— Sectional area in inches— Sectional area in inches— 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 6 6 6 8 \frac{1}{2}d. 2 \frac{1}{2}d. 2 \frac{1}{2}d. 2 \frac{1}{2}d. 3 d. 3	Do. but in stanchions 81/- do. Trusses 116/- do. Additional cost per cwt. over basic sections for following R.S.J.s 9in × 7in, 10in × 8in, 12in × 8in, 18in × 6in, 18in × 7in, 20in × 6⅓in, 20in × 7⅓in 7d. per cwt. 22in × 7in, 1/1 cwt. 4in × 3in 1/8 do. 5in × 3in, 5in × 2⅓in 2/- do. 6in × 3in, 24in × 7⅓in 2/3 do.
Per foot run— Sectional area in inches— Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar Add if in short lengths . 2d. 2d. 2½d. 2½d. 3d. 3d. 3d.	Do. but in stanchions 81/- do. Trusses 116/- do
Per foot run— Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	Do. but in stanchions 81/- do. Trusses 116/- do. Additional cost per cwt. over basic sections for following R.S.J.s 9in × 7in, 10in × 8in, 12in × 8in, 18in × 6in, 18in × 7in, 20in × 6½in, 20in × 7½in 7d. per cwt. 22in × 7in, 1/1 cwt. 4in × 3in 1/8 do. 5in × 3in, 5in × 2½in 2/- do. 6in × 3in, 24in × 7½in 2/3 do. 3in × 3in, 2/9 cwt. 4½in × 1½in 3/7 do. 3in × 1½in 3/11 do. Cleats, brackets, packing pieces, etc., in
Per foot run— Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	Do. but in stanchions
Per foot run— Sectional area in inches— Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	Do. but in stanchions
Per foot run— Sectional area in inches— Sectional area in inches— 1 2 3 4 5 6 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2	Do. but in stanchions 81/- do. Trusses
Per foot run— Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	Do. but in stanchions 81/- do. Trusses 116/- do. Additional cost per cwt. over basic sections for following R.S.J.s 9in × 7in, 10in × 8in, 12in × 8in, 14in × 8in, 16in × 8in, 18in × 6in, 18in × 7in, 20in × 7½in 7d. per cwt. 22in × 7in, 1/1 cwt. 4in × 3in 1/8 do. 5in × 3in, 5in × 2½in 2/- do. 6in × 3in, 24in × 7½in 2/3 do. 3in × 3in, 2/9 cwt. 4½in × 1½in 3/7 do. 3in × 1½in 3/1 do. Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts 154/- do. Wrot iron balustrade 153/- do. RAINWATER GOODS— Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing Per foot lineal
Per foot run— Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	Do. but in stanchions Trusses Additional cost per cwt. over basic sections for following R.S.J.s 9in × 7in, 10in × 8in, 12in × 8in, 14in × 8in, 16in × 8in, 18in × 6in, 18in × 7in, 20in × 6½in, 20in × 7½in 22in × 7in, 1/1 cwt. 4in × 3in 1/8 do. 5in × 3in, 5in × 2½in
Per foot run— Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	Do. but in stanchions \$\frac{81}{\sqrt{-}} \text{do.} \\ \text{Trusses} \text{16}{\sqrt{-}} \text{do.} \\ \text{Additional cost per cwt.} \text{over basic sections} \text{for following } \text{R.S.J.s.} \\ \text{9in \times 7in, 10in \times 8in, 12in \times 8in, \text{8in, 8in \times 6in, } \\ \text{18in \times 7in, 10in \times 6in, 18in \times 6in, 20in \times 7in \text{7in } \text{1/8} \text{do.} \\ \text{5in \times 3in, 5in \times 2\frac{1}{2}in \text{2/3} \text{do.} \\ \text{5in \times 3in, 2/9 cwt. 4\frac{1}{2}in \text{1\frac{1}{2}in} \text{3/7} \text{do.} \\ \text{Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts \text{154} \text{do.} \\ \text{Vrot iron balustrade} \text{114} \text{do.} \\ \text{Wrot iron balustrade} \text{153} \text{do.} \\ \text{RAINWATER GOODS} \text{Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork \text{4/0\frac{1}{2}} \text{4/5\frac{1}{2}} \text{5/8\frac{1}{2}} \text{5/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \text{6/8\frac{1}{2}} \
and rounded	Do. but in stanchions \$1/- do. Trusses
and rounded	Do. but in stanchions Trusses 116/- do. Additional cost per cwt. over basic sections for following R.S.J.s 9in × 7in, 10in × 8in, 12in × 8in, 14in × 8in, 16in × 8in, 18in × 6in, 18in × 7in, 20in × 6½in, 20in × 7½in 22in × 7in, 1/1 cwt. 4in × 3in
Per foot run— Sectional area in inches— Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	Do. but in stanchions \$\frac{81}{-6} \] do. Trusses 116/- do. \$\frac{116}{-6} \] do. \$\frac{Additional cost per cwt.}{\text{over basic sections for following R.S.J.s}} \] \[\text{9in \times 7in, 10in \times 8in, 12in \times 8in, 18in \times 6in, 18in \times 7in, 20in \times 6\frac{1}{2}in, 20in \times 7\frac{1}{2}in \times 7in, 1/1 cwt. 4in \times 3in 1/8 do. \times 1/8 do. \times 1/8 in \times 3in, 2/9 cwt. 4\frac{1}{2}in 2/3 do. \times 3in \times 2\frac{1}{2}in \times 1/8 in 3/1 do. \times 3in \times 1\frac{1}{2}in 3/1 do. \times 1/8 in \times 1/8 in \times 1/8 in 3/1 do. \times 1/8 in \times 1/8 in 3/1 do. \times 1/8 in \times 1/8 in
and rounded	Do. but in stanchions Trusses 116/- do. Additional cost per cwt. over basic sections for following R.S.J.s 9in × 7in, 10in × 8in, 12in × 8in, 14in × 8in, 16in × 8in, 18in × 6in, 18in × 7in, 20in × 6½in, 20in × 7½in 22in × 7in, 1/1 cwt. 4in × 3in

MEASURED RATES—Continued

TO CONTENT IN A T A W	01		P1	177	
EXTERNAL—	Soak	ers	riais	FI	ashings 238/-
4lb Milled Sheet lead per cwt		/-	221/-		238/-
LEAD PIPES: running joints,	, etc.	41	***	***	21-
Per foot run lin Main Fixed 4/11	2in	lin	1½in 12/10	11in	2in
Main Fixed 4/11	7/2	10/1	12/10	16/4	22/4
Service with 4/5	6/2	8/3	10/4	12/9	18/1
Waste hooks 2/10	4/2	5/6	8/3	9/-	11/8
Bends each —	_	-	1/9	3/-	0/-
Solder joints ,, 8/10	10/9	12/8	14/9	17/4	22/10
Solder joints , 8/10 Union and joints , 12/10 Stop valve and ditto , 28/11	16/5 37/7 28/-	18/6	24/6	_	_
Stop valve and ditto ,, 28/11	37/7	51/10	80/9	-	_
Bib valve and ditto " 20/8	28/-	-	_		-
Bib valve and ditto , 20/8 Ball valve and ditto , 22/6 Sleeve and ditto , -	31/7	49/5	71/11	_	-
Sleeve and ditto —		_	_	21/3	28/9
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					-
COPPER TUBES			1 in 6/-		
Tubes per foot run $\frac{1}{3}$ in $\frac{1}{3}$ /-	3in	1in	1 in	1 hir	i 2in
Tubes per foot run 3/-	3/8	4/10	6/-	6/1	0 10/1
each 3/5	4/2	6/3	8/3	10/3	14/-
Do. Bends each 6/6	7/8 1	0/10	14/7	21/10	0 30/-
Do. Tees each 7/10	9/1	13/1 1	7/11	23/11	31/8
Do. Cisterns each 4/4	5/9	7/6	9/8	13/4	31/8 17/6
couplings: straight each	35/4	63/-	104/6	159/-	240/-
BLACK TUBING (Class C)	lin	lin 1	in 11i	1 1 Lie	2in
fixed with pipe brackets	Arra	4			
Tobas and foot min	1/0	241 2	7 2/2	2/1/	0 5/1
nuoes, per toot run	2/10	1/7 6	7 3/3	3/10	0 5/1
Bends and nx, each	3/10 4	1/0 5/	0 7/3	8/2	12/8
Tubes, per foot run Bends and fix, each Tees and ditto Fire bends	4/- 4	1/9 3/	9 1/3	9/-	
Fire bends	1/5	1/9 1/	10 2/1	2/9	4/10
Coated iron (M) weight L.C.C waste fixed with nails and	soil a				
Coated iron (M) weight L.C.C waste fixed with nails and pieces and molten lead joints Extra only for bends and joint Do. junctions and joints Do. cleaning doors	soil a distant	and 2 nce	in 4i (4 7 (2 22) (8 28) (- 16)	/8 fo	do. do.
Coated iron (M) weight L.C.C waste fixed with nails and pieces and molten lead joints Extra only for bends and joint Do. junctions and joints Do. cleaning doors Domical wire guards	soil a distant	and 2 nce	in 4i (4 7 (2 22) (8 28) (- 16)	/8 fo	each do.
PI ASTERER—		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do. do. do.
PLASTERER		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do. do. do. rd super
PI ASTERER—		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do. do. do. rd super
PI ASTERER—		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do. do. do. rd super
PI ASTERER—		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do. do. do. rd super 6/8 8/4 4/-
PI ASTERER—		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do. do. do. rd super 6/8 8/4 4/- 8/-
PLASTERER		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do. do. do. rd super 6/8 8/4 4/- 8/-
PLASTERER		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do. do. do. ed super 6/8 8/4 4/- 8/- 9/10 4/6
PLASTERER		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do.
PLASTERER		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do.
PLASTERER		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do.
PI ASTERER—		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do. do. do. do. erd super 6/8 8/4 4/- 9/10 4/6 8/- 4/10 5/2 2/4
PI ASTERER—		and 2 nce	in 4i 74 7 72 22 78 28 76 2	in /8 for /8 /4 /4 /4 /9 /9	each do.
PLASTERER— Lime and hair Do. "" Ditto Skimm Po. "" Rende Do. "" Rende Do. "" Rende Do. "" Rende Do. "" Plain Do. "" Plain Do. "" Floor Keenes "" Skimm Thick Metal Lathing "" mesh Pick Metal Lathing "" Thick Metal Lathing "" mesh Pick Metal Lathing "" mesh Pick Metal Lathing "" Thick Metal Lathing "" mesh Pick Metal L	er and s float arning co er and s er, float ng coat face screed ming co or less × 24 C in Glaz	and 2 nce 5/ 14/ 15/ 15/ 2/ set ad set at set at Gauge zed Tile	in 4i 44 77 22 22 28 28 28 - 16 6 2	yair	each do. do. do. do. ed super 6/8 8/4 4/- 8/- 9/10 4/6 8/- 4/10 5/2 2/4 6/2
PLASTERER— Lime and hair Do. " Rende Ditto Sirapite " Kende Do. " Rende Do. " Rende Do. " Rende Do. " Rende Do. " Plain Do. " Plain Do. " Plain Do. " Floor Keenes " Skimr Thick Metal Lathing " Thick Metal Lathing " Thick quantity, white, and setting (c	er and s float an ning co er and s er, float ng coat face screed ning co or less × 244 C in Glaz on prep	and 2 nce 5/ 15/ 15/ 2/ set and set at set and di aut Gauge zed Tile ared ser ared sered	in 4i (4 7 (2 22 (8 28 (6 2 (6 2 (6 2 (6 2 (6 2 (6 2 (6 2 (6 2	yan yan	each do. do. do. do. ed super 6/8 8/4 4/- 8/- 9/10 4/6 8/- 4/10 5/2 2/4 6/2
PLASTERER— Lime and hair	er and s float ar ning co er and s er, float ng coat face screed ning co or less × 24 C in Glaz on prep	and 2 nce	in 4i /4 7 /2 22 8 28 8 16 /6 2	yaii yaii	each do. do. do. do. ed super 6/8 8/4 4/9/10 4/6 8/- 4/10 5/2 2/4 6/2 1/6
PLASTERER— Lime and hair	er and s float ar ning co er and s er, float ng coat face screed ning co or less × 24 C in Glaz on prep	and 2 nce	in 4i /4 7 /2 22 8 28 8 16 /6 2	yaii yaii	each do. do. do. do. ed super 6/8 8/4 4/9/10 4/6 8/- 4/10 5/2 2/4 6/2 1/6
PLASTERER— Lime and hair	er and s float ar ning co er and s er, float ng coat face screed ning co or less × 24 C in Glaz on prep	and 2 nce	in 4i /4 7 /2 22 8 28 8 16 /6 2	yaii yaii	each do. do. do. do. ed super 6/8 8/4 4/9/10 4/6 8/- 4/10 5/2 2/4 6/2 1/6
PLASTERER— Lime and hair	er and s float ar ning co er and s er, float ng coat face screed ning co or less × 24 C in Glaz on prep	and 2 nce	in 4i /4 7 /2 22 8 28 8 16 /6 2	yaii yaii	each do. do. do. do. ed super 6/8 8/4 4/9/10 4/6 8/- 4/10 5/2 2/4 6/2 1/6
PLASTERER— Lime and hair	er and s float ar ning co er and s er, float ng coat face screed ning co or less × 24 C in Glaz on prep	and 2 nce	in 4i /4 7 /2 22 8 28 8 16 /6 2	yaii yaii	each do. do. do. do. ed super 6/8 8/4 4/9/10 4/6 8/- 4/10 5/2 2/4 6/2 1/6
PLASTERER— Lime and hair	er and s float ar ning co er and s er, float ng coat face screed ning co or less × 24 C in Glaz on prep	and 2 nce	in 4i /4 7 /2 22 8 28 8 16 /6 2	yaii yaii	each do. do. do. do. ed super 6/8 8/4 4/9/10 4/6 8/- 4/10 5/2 2/4 6/2 1/6
PLASTERER— Lime and hair Do. \$\frac{1}{2}" \text{ Render} Do. \$\frac{1}{2}" \text{ Skinnr} Do. \$\frac{1}{2}" \text{ Render} Do. \$\frac{1}{2}" \text{ Render} Do. \$\frac{1}{2}" \text{ Render} Do. \$\frac{1}{2}" \text{ Render} Do. \$\frac{1}{2}" \text{ Backin} Do. \$\frac{1}{2}" \text{ Backin} Do. \$\frac{1}{2}" \text{ Floor} Keenes Do. \$\frac{1}{2}" \text{ Floor} Keenes Dubbing \$\frac{1}{2}" \text{ Skinnr} Dubbing \$\frac{1}{2}" \text{ Thick} Metal Lathing \$\frac{1}{2}" \text{ mesh} 6" \times 6" \times \frac{1}{2}" \text{ Earthenware Pla} quantity, white, and setting (C Rounded edge. Extra over las Angles in ditto Cutting and fitting. Around p Narrow widths. \$3" to 6" wid Ditto. 6" to 12" dit Sundry labours per foot li Quirk \$2\frac{1}{2}d. \text{ Arris } 3\frac{1}{2}d. \text{ Fair}	er and s float aming co er and s er, float ng coat face screed ming co or less × 24 C in Glaz on prep t ipes or le. A tto. A neal:— edge	and 2 nce	in 4i /4 7 /2 22 8 28 8 16 /6 2	yaii yaii	each do. do. do. do. ed super 6/8 8/4 4/9/10 4/6 8/- 4/10 5/2 2/4 6/2 1/6
PLASTERER— Lime and hair Do. "" Ditto Sirapite "" Skimr Do. "" Rende Do. "" Rende Portland "" Backir Do. "" Flaor Do. "" Flaor Do. "" Flaor Company Skimr Do. "" Skimr Do. "" Skimr Do. "" Skimr Do. "" Skimr Dubbing "" Skimr Dubbing "" Skimr Dubbing "" Skimr Dubbing "" Skimr Cutting and fitting. Around p Narrow widths. 3" to 6" wid Ditto. 6" to 12" dit Sundry labours per foot li Quirk 2\(\frac{1}{2}\)d. Arris 3\(\frac{1}{2}\)d. Fair	er and s float aming co er and s er, float ng coat face screed ming co or less × 24 C in Glaz on prep t ipes or le. A tto. A neal:— edge	and 2 nce	in 4i /4 7 /2 22 8 28 8 16 /6 2	yaii yaii	each do. do. do. do. ed super 6/8 8/4 4/9/10 4/6 8/- 4/10 5/2 2/4 6/2 1/6
PLASTERER— Lime and hair	er and s float ar ning co er and s er, float ng coat face screed ning co or less × 24 C in Glaz in Glaz in Glaz in ges t . ipes or le. A ineal: edge	and 2 nce	in 4i /4 7 /2 22 8 28 8 16 /6 2	yaii yaii	each do. do. do. do. ed super 6/8 8/4 4/9/10 4/6 8/- 4/10 5/2 2/4 6/2 1/6

POLISHING		Sashwork
NEW WORK— Staining, bodying-in and French Polish Staining and wax polishing on hardwood OLD WORK—	Foot super 2/9 1/2	Foot run 1/9 9d.
Cleaning down old work and repolish Stripping, preparing and repolishing	1/2 3/-	2/-

INTERNAL PAINTING

With white lead base	in comr	non colo	urs, with	brushes.
	Knot	Prime	Prime	Add
	stop	and	and	for each
and to the same	and	paint	paint	extra
ON WOOD —	prime	once	twice	coat
General surfaces	2/8	5/3	7/6	2/1 Yard super

Running lengths not					
exceeding 3" wide 3&d.		7d.	91d.	2ªd.	Yard run
Do. 3" to 6" wide 5d.		91d.	1/2	4d.	do.
Do. 6" to 9" wide 7%d.		1/24	1/10	61d.	do.
Do. 9" to 12" wide 91d.		1/64	2/31	73d.	do.
Sash square each side 4/:	5	8/9	1373	3/9	per doz.
Do. in large squares 6/-		12/6	18/4	5/3	do.
Opening edges 7d.		1/2	1/9	7d.	each
Casement frames		-/-	-1-		outli
each side 43d.		81d.	1/-	3d.	Yard run
Mullions or tran-		04.00	-/	5444	1 414 1411
soms, do6½d.		11 d.	1/3	41d.	do.
ON PLASTER—		One	Two	Three	
		coat	coats	coats	
Paint on surfaces		2/9	5/2	7/3	
		-/-	0/=	.1.0	super
Do. on mouldings		3/2	5/9	7/11	do.
Do, on enrichment		5/6	10/4	14/6	
ON STEEL-		-/	**/ *	/ -	uo.
Paint on structural steel		2/2	4/2	6/-	do.
Do, on roof trusses		3/10	7/7	10/5	do.
Do. on metal windows measured over all on b	oth	-,	-,-	,.	
sides, divided into squa		3/3	5/6	7/11	do.
Do, divided into large		-/-	-/-	./	ao.
squares		2/9	4/9	6/4	do.
Do. divided into extra		=/-	1/2	0/4	ao.
large squares		2/4	3/11	5/4	do.
Do. on opening edges		10d.	1/6	2/-	each
Do, on rain water pipe		10d.	1/7	2/1	Yard run
Do. on do. gutter		1/3	2/8	3/7	do.
Do. on small pipe		3d.	6d.	10d.	do.

GLAZING (to New Work)

Do. (unless extra sizes) 100 feet do. ... 8/0½

Add extra price for glazing with screw beads or clips 5d. per foot super. Do. if glazing bedded in washleather or velvet 9d. per foot run

SHEET GLASS, glazed, complete, per foot super, in new work: Ordinary quality clear, glazed to wood with putty:-.. 1/6 1/5± 2/2 2/0± 1/10 do. do. do. 1/10 1/10 1/9 Spotlyte do. in Rough cast do. 1/111 do. do. Add for glazing all as before but to steel to similar work as above, 13d, per superficial foot.

PAINTER AND DECORATOR

DISTEMPERING—In common colours, put on with brushes— ON PREPARED SURFACE.

per yard super—	1 coat	2 coats	Add if	required	
per yara saper	(finish)	(under- coat	Sealing coat	Stipp- ling	
Ordinary distemper on flat		and finis	h)		
surface of plaster	9d.	1/41	6d.	3d.	
Washable do. on do. of					
plaster	1/-	1/10	6d.	3d.	
Add if in margins, narrow					
widths or panels	30%	30%	20%	50%	
Add if on mouldings	50%	50%	45%	-	
Add if on enrichments	160%	160%	115%	-	

DA	PER	EEA	NICI	INC

	ing only	-	-							P	er	P	iece-		Pattern
								*		*	,		* *	6/10	8/2
	stairs		×	*	*		*	×					* *	9/4	9/7
On	ceilings							*	*		,		* *	8/2	9/1

Whats Cooking ... IN FLOORS ?





BIRDS experimental kitchen has colourful, hygienic flooring.

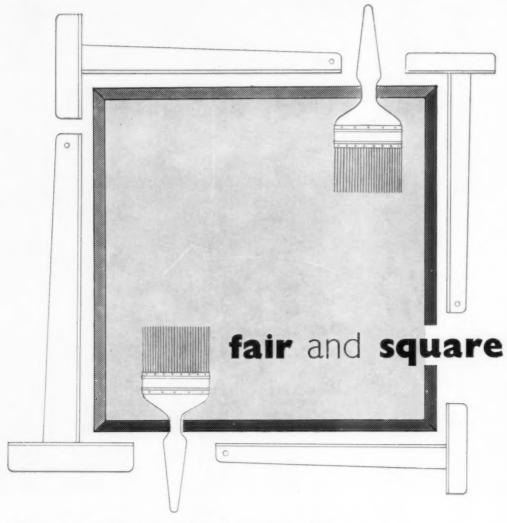
The latest material for flooring is ACCOFLEX—the Vinyl-Asbestos
Tile made by Armstrong. It was chosen for Birds kitchen and,
as you can see, it is cheery and colourful in design. We cannot say whether it will be directly responsible for improving
the renowned qualities of Birds products, but we do know
that it is hygienic and easy to keep spick and span as a
kitchen should be.

The 14 clear and clean colours of the ACCOFLEX range enable Architects to plan endless colour harmonies, and the flexibility of the tile enables it to be laid over any sub-floor—even suspended wood boards.

Of special interest in the Birds installation is the facsimile of their trade mark in multi-tile ACCOFLEX. Full details are now available. Write for the Accoflex Colour Range leaflet No. 321.

British Registered Trade Mark 734,048 Armstrong Cork Company Ltd., Registered Users.





When you first see a ceiling constructed with ASBESTOLUX ceiling panels you are struck by its crispness and accuracy. Years later, you will still admire it for the same reasons. The qualities of an ASBESTOLUX ceiling do not disappear with time: they are there, like the ceiling itself, for good—not forgetting that vital quality you cannot see, the ability to give up to 4 hours fire protection to floors.

ASBESTOLUX precision-cut ceiling panels have a fine, smooth surface, with bevelled edges. They are made to a tolerance of plus nil minus $\frac{1}{16}$ ", every one jig-checked for squareness before dispatch.

They are available in 1" and 3" thickness in the following sizes:

4'x4' 4'x2' 3'4'x2' 3'x2' 2'8'x2' 2'x2'



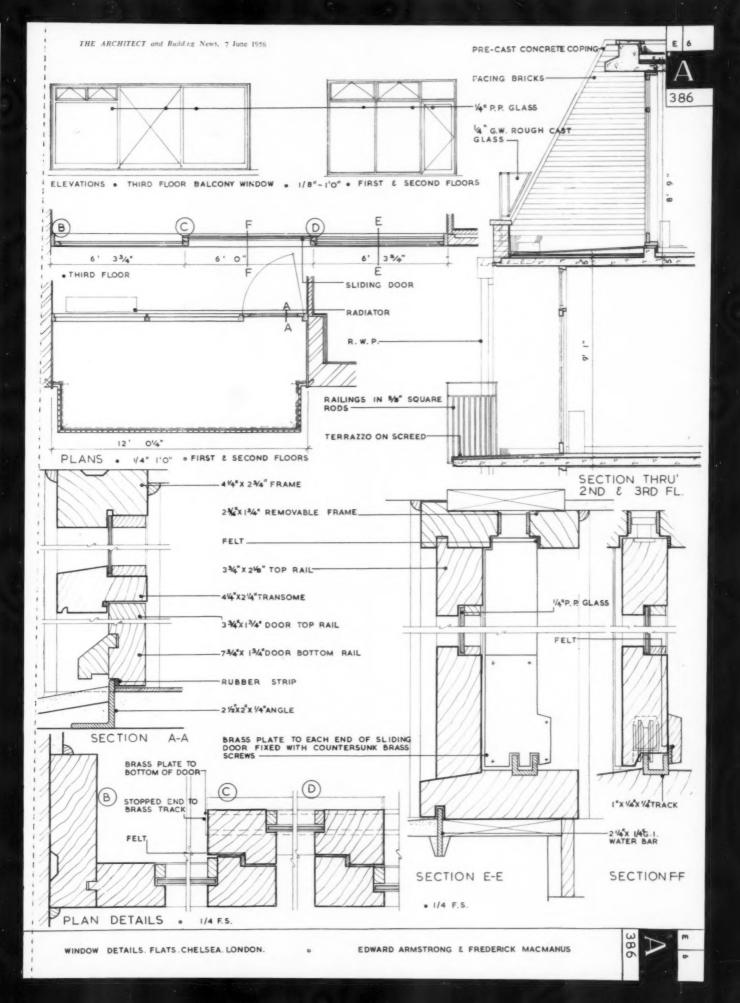
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and at Floor D National Buildings St. Mary's Parsonage, Manchester, 3 Tel: Deansgate 6016 * Eagle Buildings, 217 Bothwell Street, Glasgow, C.2 Tel: Central 2175
246a Corporation Street, Birmingham. 4 Tel: Central 8168







WINDOW DETAILS: FLATS, CHELSEA, LONDON ARCHITECTS: EDWARD ARMSTRONG & FREDERICK MACMANUS

ELECTRIC LIGHTING

INDUSTRIAL LIGHTING INSTALLATIONS

It is sometimes not realised that the recommended minimum values of illumination quoted in L5, Table I, are necessary at all production times irrespective of the state of the weather or the time of year. If the day lighting falls below the required level it must be possible to add sufficient electric lighting to make good the deficiency. The higher the illumination levels required by the work or processes undertaken, the more often will electric lighting be required, and the more important will it become to design the building with this aspect of the problem in mind.

Conventional Single-storey Factories

In buildings of this type it is the usual practice to suspend the lighting fittings from the roof trusses, but every endeavour should be made to avoid placing the fittings under the roof lights where they may seriously obstruct the daylight and become excessively glaring during the hours of darkness when seen against the black glazed areas. The underside of the roof should be lined with light material — e.g. insulation board — and fittings selected which emit an appreciable proportion of their light upwards on the unglazed and lined areas of the roof.

High Bay Workshops

This type of workshop common to foundries and heavy engineering works is often lighted by a number of powerful lamps mounted high up in fittings which concentrate the light downwards to avoid loss of light on the upper parts of the walls. The effect, however, is depressing, and gives rise to harsh shadows, with poor illumination on vertical surfaces and within the work generally, and a strong tendency to glare (see Fig. 1a). Where the surroundings are reasonably clean and lighter colours can be employed, a considerable improvement in working conditions is possible by mounting the lamps in dispersive reflector fittings (see L2). The loss of light due to absorption by the wall surfaces will be offset by the increased light output of these fittings, and the light reflected from the walls on to the working area will soften shadows, reduce the risk of glare, and provide better illumination of vertical and internal surfaces (see Fig. 1b).

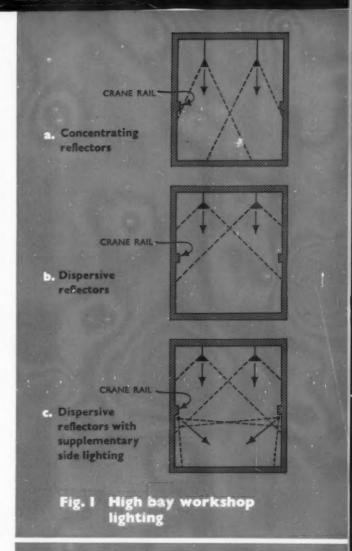
It is strongly recommended that wherever possible, the high level lighting be supplemented by side lighting directed inwards and downwards from lamps mounted below the gantry crane. Fluorescent lamps are particularly effective for this purpose, and even without diffusing screens will conform to the statutory limitation on the brightness of fittings mounted less than 16 ft. from the floor; (Fig. 1c).

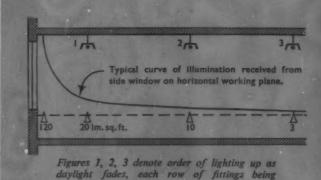
Maintenance of High Mounted Fittings

There is an increasing tendency to use fluorescent lamps in very high interiors, especially cold cathode lighting due to its high nominal life—15,000 hours before replacement becomes necessary. This does not however justify inadequate means of access to high mounted fittings, as the frequency with which they need attention is determined by the rate of accumulation of dirt rather than the necessity for replacing lamps. Fittings are frequently mounted so as to be maintained from the travelling crane, but it is far better to provide independent access—e.g. by catwalk or cradle—to ensure adequate attention to the lighting.

Multi-storey Factories

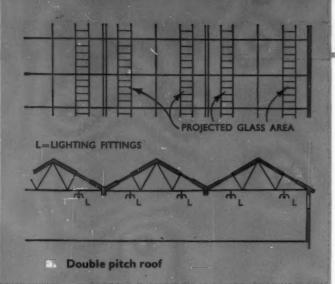
With the exception of roof lights on the top floor and below light wells, daylight in multi-storey factories is provided by side windows, which cannot be relied upon for satisfactory illumination beyond 10 to 15 ft. into the building (see Fig. 2). The rooms or workshops being generally low in relation to their width, almost continuous electric lighting will be needed over substantial areas in the centre

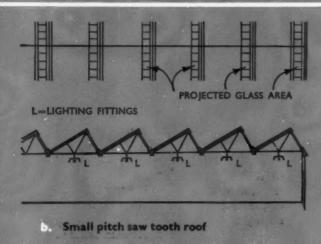


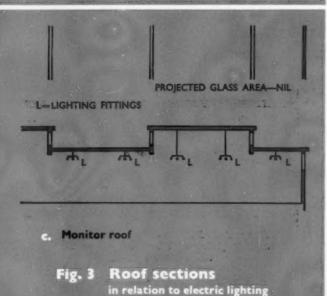


independently switched.

Fig. 2 Supplementary







L.6

of large interiors. Owing to the comparatively low ceiling height, lamps of high wattage cannot normally be used, and a large number of lighting fittings may be required since the spacing-mounting height ratio must remain 1½ to 1 (see L5).

Fluorescent lamps give the most satisfactory results under these circumstances and are widely used in this type of interior, since their light blends in an acceptable manner with that in the window-lighted areas, and their linear form lends itself to straightforward and efficient layouts. Although the brightness of the individual lamps is low, no relaxation of the normal shielding requirements is permissible since serious glare may arise from such a large area of visible light sources. Switching should be arranged so that the electric lighting of the centre areas of any large room or workshop can be used independently of the lighting near the windows.

The Integration of Day Lighting and Electric Lighting

In the design of single-storey factories, the roof shape, including trusses, beams and glazing, must be regarded as part of the electric lighting installation-a kind of overall lighting fitting, the efficiency of which has a notable effect on the illumination provided after dark and during periods of inadequate daylight. The desired uniformity of lighting can be maintained throughout the whole working period only when both day and electric light are themselves uniformly distributed, and this requires that roof lights and electric lighting must be planned in relation to each other as well as to the production area. Fig. 3 shows three systems of roof design which provide reasonably uniform day lighting, though with different daylight factors; (a) is the least satisfactory for electric lighting, whether supplementary or after dark: much light will be lost through the roof glazing unless closed top reflectors are used when an unpleasant tunnel effect will probably be found. Better results will be obtained from (b) where the visible areas of glazing are less but the natural light comes from one direction only, and from the electric lighting aspect the roof is still 'wasted'. Monitor type roofs as (c) not only give reasonably uniform daylight, but provide the clear reflecting surfaces necessary to give uniform electric lighting as well. The appearance of this interior will also be better than in the other examples, owing to its all-over lightness when illuminated and the small visible area of glazing. Moreover both sides of the vertical glazing are easily cleaned: other types are difficult to reach and remain uncleaned in consequence. Although switching control may not always be decided by the architect, automatic photo-cell control should be considered, as its use will affect the wiring layout. This system, now developed to full reliability and great flexibility, is the only certain way of ensuring that the designed integration of day and electric lighting will, in fact, take place.

The Structure and the Services

Consideration should always be given to the possibility of using the structure to house or support lighting fittings, to screen them, or to provide access to them for maintenance. Concrete roofs, in particular when of the barrel or vaulted type, are of great assistance: the light, clean ceiling so formed makes an excellent reflector, and may even permit the use of unshielded fluorescent lamps provided that they are normally seen against the bright ceiling. It is important, however, with shell concrete vaults to incorporate fixings for conduit, fittings and other services before concreting in order to avoid the labour and cost of cutting away, and the loss of strength which may result therefrom.

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British Electrical Development Association



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Western Red Cedar

a warm toned wood that combines good working qualities with exceptionally high resistance to decay and changes in moisture content.

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TOWN PLANNING.
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ESTATES AND INTERIORS.

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CONTRACT NEWS

OPEN

BUILDING

ALCESTER R. C. (a) Erection of four houses at Sambourne. (b) Council's Surveyor, Council Offices. (c) 2gns, by cheque payable to Council. (e) June 27. BACUP B.C. (a) Conversion of Carlton House, Todmorden Road, into two flats. (c) 2gns. (e) June 18.

BEBINGTON B.C. (a) Erection of 112 dwellings on the Mill Park estate, East-

ham. (b) Borough Engineer, "Braken-wood," Higher Bebington. (c) 3gns. (e) June 22.

BEDFORDSHIRE EDUCATION COM-MITTEE. (a) Structural alterations to existing buildings at North Bedfordshire College of Further Education, Cauldwell Street and erection of a three classroom

Street and efection of a three classroom temporary hutment at Kempston secondary school. (b) County Architect, Shire Hall, Bedford. (d) June 12.

BROMLEY B.C. (a) Erection of 28 old people's bungalows at Springfield Road. (b) Borough Engineer, Municipal Offices, together with details of similar schemes destables and same of two independent. undertaken and names of two independent persons to whom reference can be made concerning such schemes. (c) 2gns.

(d) June 16.

CARLISLE C.C. (a) Erection of 52 Plats, 2 bungalows and 2 houses on various sites. (b) City Surveyor, 18 Fisher Street. (e) June 26.

CROYDON B.C. (a) Conversion of two houses in Sydenham Road, into 16

two houses in Sydenham Road, into 16 units of living accommodation for blind people. (b) Borough Engineer, Council Offices. (c) July 3.

DEVIZES R.C. (a) Erection of four houses and four bungalows, vehicle pullin and sewage treatment plant, together with ancillary site works, at Spaniel's Bridge, Coatee, Bishop's Cannings. (b) Edwards and Webster, 22 St. John Street. (c) £1. (e) June 22.

(c) £1. (e) June 22.

DEVON C.C. (a) Erection of woodwork room at Okehampton Grammar School.

(b) County Architect, 97 Heavitree Road, Exeter. (c) 2gns. by cheque payable to Council. (d) June 15.

EIRE—LONGFORD C.C. (a) Proposed erection of (1) Main hospital block, (2) staff home block, (3) chapel block, (4)

out-patients department and maternity unit. (5) administration block, (6) unit, (5) mortuary boiler-house and garages, (7) residences and ancillaries, (8) site works, including site development, site bound-aries, main roads, main ducts, main drains, water mains and domestic drains, for New County Hospital. (b) Messrs. A. Edward Smith and Co., 4 Wilton Place, Dublin, on production of a receipt from the Council for a deposit of £50.

(e) July 26.

FLINTSHIRE C.C. (a) Erection of A.F.S. garage at Fire Service head-quarters, Connah's Quay. (b) County Architect, Liwynegrin, Mold. (c) Ign. (e) June 18.

GREAT OUSE RIVER BOARD. Erection of a detached two-storey office at Wisbech Road, King's Lynn. (b) Chief Engineer, Elmhurst, Brookland Avenue, Cambridge. (e) June 25.

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked # are given in the advertisement section.

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BULWELL - NOTTINGHAM

HAILSHAM R.C. (a) Erection of a garage for public sewer vehicles, concrete yard surfacing, and erection of a bound-ary wall and fences at the Council Depot, Leap Cross, Hellingly. (b) Council's Surveyor, Cortland. (c) £2. (e) June 19.

HALESOWEN B.C. (a) Contract No. 16. Erection of 10 bungalows at Howley Grange estate. (b) Messrs, J. C. T. Cole and Partners, Central Buildings, Long Lane, Blackheath, near Birmingham. (c) (d) June 9.

2gns. (d) June 9.

HORSHAM U.C. (a) Erection of (Site 1) 14 houses and (Site 2) 16 houses on the Needles Farm estate. (b) Council's Engineer, Council Offices, Horsham Park. (c) 2gns. (e) June 18.

KIRKBY-IN-ASHFIELD U.C. (a) Erection of four pairs type B2 dwellings and one block type K4 flats in Skegby Road, and 19 pairs type L dwellings at Kings-

and 19 pairs type L dwellings at Kings-way. (b) Council's Surveyor, Public Offices. (c) 3gns. (e) June 18. LEEDS C.C. (a) Supply and erection of constructional steelwork required in extensions to Torre Road Bus Garage. (b) Transport General Manager, 1 Swine-gate. (e) June 18. LEEDS REGIONAL HOSPITAL BOARD. (a) Carving out alterations to

gate. (e) June 18.

LEEDS REGIONAL HOSPITAL
BOARD. (a) Carrying out alterations to
provide an infant feed preparation
department at Castle Hill Hospital, Cottingham, East Yorkshire. (b) Board's
Architect, Park Parade, Harrogate, Yorkshire. (c) 2gns. (d) June 12. (e) July 4.

LEICESTER C.C. (a) Erection of a
classroom block at Groby school. (b)
County Architect, 123 London Road.
(c) 2gns. (e) July 2.

LINCOLN C.C. — PARTS OF
KESTEVEN. (a) Erection of a pair of
staff houses at Kesteven Farm Institute,
Caythorpe. (b) County Architect, County
Offices, Sleaford. (e) July 2.

LONDON—EALING B.C. (a) Erection
of 2 blocks containing 36 flats and site
works in Wilsmere Drive, Fairview
Estate, Northolt. (b) Borough Surveyor,
Town Hall, W.S. (c) £2. (e) June 22.

LONDON—GREENWICH B.C. (a)
Conversion of No. 26 Kidbrooke Grove,
Blackheath, S.E.3, into six self-contained
flats. (b) Borough Engineer, Town Hall,
Greenwich High Road, S.E.10, together
with particulars of recent works executed
by applicants. (d) June 26.

NARBERTH. (a) Erection of the Narberth Town Hall. (b) Hon. Secretary,
Bank House, St. James Street.

N. IRELAND—CO. FERMANAGH
(a) Carrying out proposed adaptations,
alterations and demolitions to premises,
Tubrid, Kesh. Co. Fermanagh, to form

alterations and demolitions to premises, Tubrid, Kesh. Co. Fermanagh, to form byres, calf house, deep litter house,

byres, calf nouse, deep litter nouse, stores, farm manager's dwelling house, etc. (b) W. Ivan Lynch, 2 Shipquay Street, Londonderry, or F. H. Wright and Partners, 79 Botanic Avenue, Belfast. (c) 5gns. (e) June 28.

N. IRELAND — NORTHERN IRELAND HOSPITALS AUTHORITY. (a)

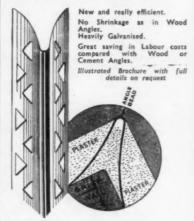
Freetien of a new physiotherapy. Erection of a new physiotherapy department, new twin operating theatre unit and sundry ancillary works at Lurgan and Portadown Hospital. (b) Messrs. Thomas T. Houston and Co., 26 College Gardens, Belfast. (c) 5gns. (e) July 31. COURSES for all R.I.B.A. EXAMS Postal tuition in History, Testimonies, Design, Calculations, Materials, Construction, Structures, Hygiene, Specification, Professional Practice, etc. Also in general educational

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N. IRELAND — NORTHERN IRE-LAND HOUSING TRUST. (a) Demolition of old buildings and erections of 20 dwellings, together with ancillary and engineering works at Moat Street, Donaghadee, Co. Down. (b) General Manager, Northern Ireland Housing Trust, 12 Hope Street, Belfast. (c) £3. (e) June 20.

RIDING NORTH COMMITTEE. (a) Erection of Wensley dale modern school, at Leyburn. (b F. Barraclough, County Hall, Northallerton, or W. B. Edwards and Partners, 5-6 Claremont Buildings, Eldon Place, New-

Claremont Buildings, Eldon Place, New-castle-on-Tyne, 1. (e) July 2.

NOTTINGHAM C.C. (a) Carrying out alterations to the Reception Centre, Hucknall Road. (b) City Engineer, The Guildhall. (c) £2. (e) June 22.

POOLE B.C. (a) Erection of (1) four numning station superstructures (2) pumping station superstructures, administration building complete, store and workshop complete, and (4) main entrance gateway, at Broadstone Sewage Disposal Works, Contract No. 2. (b) Messrs. J. D. & D. M. Watson, 18 Queen Anne's Gate, S.W.1. (c) 3gns. by

cheque payable to Corporation. 19. READING B.C. (a) Erection of two pairs of three-bedroomed houses and one block of six aged persons bungalows at "Parkhurst", Bath Road. (b) Borough Architect, Town Hall. (c) 2gns. by cheque

payable to Corporation. (e) June 28.

ROWLEY REGIS B.C. (a) Erection of 100 houses on the Tividale Hall estate. (b) Council's Architect, Municipal Buildings, Old Hill, Staffs. (c) 3gns. (e)

RUSHDEN U.C. (a) Erection of 38 houses and 12 flats at Hayden Road site. (b) Council's Engineer, Council Buildings. (e) June 19.

ST. ALBANS C.C. (a) Conversion of one shop into two shops and fitting of shop fronts and internal work to Nos. 10, 22/1, 22/2 and 24, High Oaks. (b) City Engineer, 16 St. Peter's Street. (c) 2gns. (e) June 25 (e) June 2:

SCOTLAND—HAMILTON. tion of 36 houses at Wylie Street. All or separate trades. (b) Scottish Special Housing Association Ltd., Palmerston Place, Edinburgh, 12.

ULVERSTON U.C. (a) Erection of (1) small extension to shop store, (2) block of 7 garages, in Rydal Road. (b) Housing Architect, P.O. Box No. 1, Town Hall. (c) 2gns. WEST RIDING OF YORKSHIRE C.C.

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WALSALL B.C. (a) Erection and completion of alterations and additions to Palfrey primary school. (b) Messrs. Lavender, Son and Close, 50 Bradford Street, immediately. (c) 3gns. (e) June

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Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contrac-tor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

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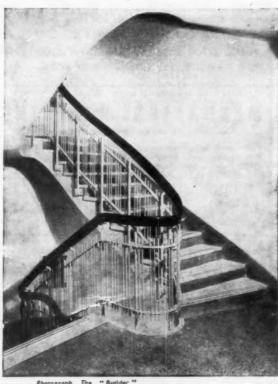
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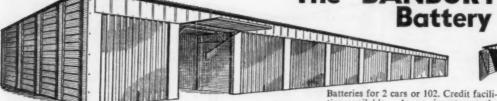
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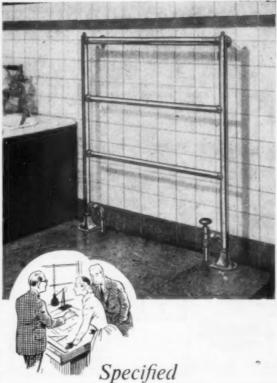
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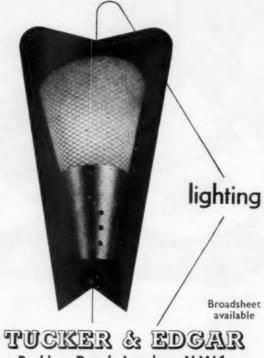
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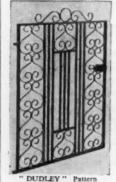
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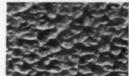
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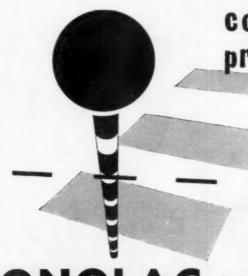
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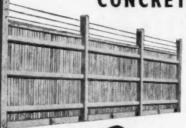
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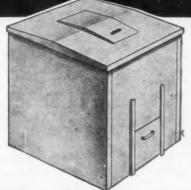
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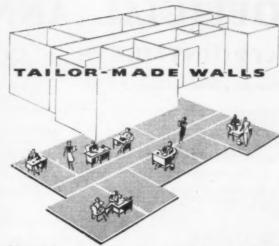
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The post is permanent, subject to a medical examination, to three months' notice on either side, and to the provisions of the Local Government Superannuation Acts. 1937/53, and the Birmingham Municipal Officers' Widows' and Orphans' Pensions

Scheme.

Applications, endorsed with the heading of the post, stating age, present position and salary, qualifications and experience, together with the names of two persons to whom reference can be made, should reach the undersigned not later than 29th love 1956.

ne, 1956.
Canvassing disqualifies.
A. G. SHEPPARD FIDLER,
City Arch City Architect.

COUNTY BOROUGH OF GREAT YARMOUTH

SCHOOLS ARCHITECT'S DEPARTMENT

A PPLICATIONS are invited for the appointment of a Temporary Senior Assistant within Grade A.P.T. VI (8880 - £1,080). The post is superannuable and subject to the National Conditions of Service. Candidates must be Associate Members of the R.I.B.A. and should have extensive experience in design and construction of schools. Previous knowledge of schools for partially blind and deaf children will be an advantage. Housing accommodation will be made available if required and the post is guaranteed for a minimum of two years.

two years.

of two years.

Applications stating age, qualifications, experience, with details of past and present appointments, to-sether with the names of two referees, should reach the Schools Architect, 22, Euston Road, Great Yarmouth, by 11th June, 1956.

D. G. FARROW

22, Euston Road, Great Yarmouth,

LONDON COUNTY COUNCIL

ARCHITECT'S DEPARTMENT

VACANCIES exist for GRADE III ARCHI-TECTS (salary up to £987, with starting point according to qualifications and experience) to take part in a programme of improvement works on existing Council properties. A.R.LB.A. preferred. Particulars and application form, returnable by 22nd June, from The Architect (AR/EK/IMP/3), County Hall, S.E.I. (1030). [2415]

A PPLICATIONS are invited for the appointment of CLERK OF WORKS. Salary according to experience. Contract period approximately one year commencing immediately. Job involves supervision of an Administration Block valued at £50,000 of high standard of finish, and control of Agricultural details and finishes to various large plant buildings on an Aero-testing site now under construction. Applications, together with either copies of two referees.—Box 2208, c/o A. & B. N. [2393]

APPOINTMENTS—contd.

CITY OF BIRMINGHAM

CITY ARCHITECT'S DEPARTMENT

A PPLICATIONS are invited for the following

A appointments:—

Quantity Surveyors — Grade A.P.T. IV —

£710/£885 per annum

Quantity Surveyor — Grade A.P.T. III —

£640/£765 per annum

A.P.T. III —

£540/£765 per annum

£550/£630 per annum

Applicants for Grade A.P.T. IV must have passed the Final Examination, and for Grades A.P.T. I and A.P.T. III, the Intermediate Examination of the R.I.C.S. (Quantity Section), or hold equivalent qualifications. The commencing salaries in the grades will be according to capabilities and experience. The posts are permanent: subject to a medicaramination, to one month's notice on either side, and to the provisions of the Local Government Superannuation Acts 1937/53, and the Birmingham Municipal Officers' Widows' and Orphans' Pensions Scheme.

Scheme.

Applications, endorsed with the heading of the post, setting out present position and salary, qualifications and experience, together with the names of two persons to whom reference can be made, should reach the undersigned not later than 23rd June, 1956.

Canvassing dismulifies

Canvassing disqualifies.

A. G. SHEPPARD FIDLER.

GOVERNMENT OF BECHUANALAND

ASSISTANT ARCHITECT

DUTIES include preparation of preliminary, working and detail drawings and specifications for all work on building programmes.

Contract appointment for three years. Salary scale 5804 to £1,707 per annum, including cost of living and special allowances. Rehabilitation grant on satisfactory completion of contract up to £37 10s. for each three months of resident service.

An allowance for education outside the High

each three months of resident service.

An allowance for education outside the High Commission Territories of £50 per annum for each child with a maximum of £120.

Furnished quarters at rental of 10% of salary. Free passages for officer and wife, and assistance towards children's passages. Four days leave for each completed month of resident service.

Candidates not over 45 years, should be A.R.I.B.A., with minimum of five years experience. Write Director of Recruitment, Colonial Office, London, S.W.I., giving age, qualifications and experience, quoting BCD.112/76/08.

SHEFFIELD REGIONAL HOSPITAL BOARD

A PPLICATIONS are invited from persons with ex-A PPLICATIONS are invited from persons with experience in a builder's or quantity surveyor's office for the post of SURVEYOR'S CLERK in the Architectural Department of the Board's Headquarters. Salary scale is at present £400 (at age 24 or over) x 15(4) x 20(5)—£500, and an increase of % is anticipated. The appointment is subject to the Whitley Council terms and conditions of service, to the National Health Service (Superannuation) Regulations and to one month's notice on either side. Applications stating age and experience, together with the names of three referees, should reach the Secretary to the Board, Fulwood House, Old Fulwood Road, Sheffield, 10, by 23rd June, 1956.

STRUCTURAL ENGINEER

required

with experience in prestressed concrete, to take charge of small drawing office, and assist in development work.

Salary £1,000 to £1,250 according to experience. Applicants should send details of qualifications and

experience to:

UDALLS, West Quay Road, Southampton.

[2409]

APPOINTMENTS—contd.

GOVERNMENT OF SIERRA LEONE

ARCHITECT (TEMPORARY) PUBLIC WORKS DEPARTMENT

To prepare plans and specifications for buildings of all types. Contract appointment for 18-24 months in first instance. Salary range 1996-£1,857 p.a. plus gratuity £25-£37 lbs. for each three months' service. Free passages for officer, wife and two children or £75 allowances for each of two children maintained outside Sierra Leone.

outside Sierra Leone. Seven days leave for each month of resident service. Quarters, if available, rental 8½% of basic

sairy.

Candidates must be A.R.I.B.A. and/or hold a degreee in Architecture.

Write Director of Recruitment, Colonial Office, London, S.W.I., giving age, qualifications and experience, quoting BCD.112/15/011.

[2389]

URBAN DISTRICT COUNCIL OF CORBY

JUNIOR ARCHITECTURAL ASSISTANT Grade A.P.T. 1 (£530 -£610)

A PPLICATIONS are invited for the above appointment in the Architectural Section of the Engineer and Surveyor's Department.

Applicants must have passed the R.I.B.A. Intermediate Examination, or its equivalent at one of the recognised schools of architecture, and preference will be given to those who have had practical office experience in housing and general architecture.

The provisions of the Local Government Superanuation Acts 1937/53, will apply to this appointment.

ment.

Housing accommodation will be made available to the successful candidate if married.

Forms of application may be obtained from the undersigned, to whom they should be returned not later than the first post on Saturday, 23rd June, 1956. Testimonials will be required only from applicants selected for interview.

G. B. BI ACKALL

Council Offices, CORBY, Northants. 28th May, 1956.

12394

SHEFFIELD REGIONAL HOSPITAL BOARD

A PPLICATIONS are invited for the post of ASSISTANT QUANTITY SURVEYOR. Salary scale is at present £640 x 25(4) 30(4) x 35(2) — 2390, and an increase of 6% is anticipated. Applicants should preferably hold the R.I.C.S. qualification. The appointment is subject to the Whitley Council terms and conditions of service, to the National Health Service Superanuation) Regulations, and to one month's notice on either side. Applications, stating age, qualifications, and previous appointments, together with the names of three referees, should reach the Secretary to the Board, Fulwood House, Old Fulwood Road, Sheffield, 10. by 23rd June, 1956.

BOROUGH OF LOUTH

APPOINTMENT OF ARCHITECTS

L OUTH Borough Council require the services of a firm of Architects to undertake the preparation of plans, drawings, specifications, etc. and the subsequent erection of houses in connection with their current housing development. Further particulars and forms of application may be obtained from the undersigned to whom completed applications should be returned not later than 23rd June, 1956.

WALTER HOLT.

WALTER HOLT

Town Hall, 1st June, 1956.

APPOINTMENTS—contd.

COUNTY BOROUGH OF NEWPORT.

BOROUGH ARCHITECT'S DEPARTMENT

A PPLICATIONS are invited for the post of BUILDING SURVEYOR, Grade 5 (£795 x 35—£970). Candidates must be Associates of the Royal Institute of Chartered Surveyors. Housing Accommodation will be provided if necessary. Forms in application from the Borough Architect, Civic Centre, Newport, Mon., to whom they must be returned not later than Wednesday, 20th June, 1956. [2404]

COMPETITION

ARCHITECTURAL COMPETITION FOR NEW COLLEGE BUILDINGS, PAISLEY, SCOTLAND

THE Governors of the above College invite Architects registered under the Architects registered to the Registration Acts and resident in Great Britain, Northern Ireland or the Republic of Ireland to submit in competition designs for new Technical College buildings in Paisley, Scotland.

Assessor: Professor R. Gardner - Medwin, F.R.I.B.A., M.T.P.I. Premiums: (1) £1,500; (2) £1,000; (3) £500.

Last day for submitting designs: Noon on 27th February, 1957. Last day for questions: 3rd September, 1956.

Conditions may be obtained from J. & A.

tember, 1956.
Conditions may be obtained from J. & A. Gardner, Clerks to the Governors, 3 County Place, Paisley, Renfewshire, on payment of a deposit of 22. An applicant for the conditions must state his registration number or the number of the receipt issued to him by the Architects' Registration Council in respect of the admission fee. [2412

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ARCHITECTURAL APPOINT-MENTS VACANT

D ORSET COUNTY COUNCIL require ASSISTANT ARCHITECT (Scale £690 x £30— £840 per annum. Candidates must be A.R.I.B.A. and experience of Education buildings would be an advantage but experience.

not essential.

Application forms from the Clerk County Hall,
Dorchester, to be returned by 20th June. [2413]

ARCHITECTURAL ASSISTANT of Intermediate to Final standard with previous office experience required for busy general practice. The practice expanding and offers excellent prospects to the right man. Travelling expenses will be paid to those applicants selected for interview. — Write, stating age, experience, and salary required to Earp, Badger & Harrison, Chartered Architects, Scholars Lane, Stratford-on-Avon. [2395]

A SSISTANT required in busy practice in West End, in early twenties, about Intermediate R.I.B.A. Standard. Excellent opportunities for gaining all-round experience.—Box No. 1685, c/o A. & B. N. [0636]

THE BOROUGH OF HAMPSTEAD require Junior Architectural Assistant. Salary — Higher General Division (at age 18 — 5300 rising to a maximum of £640, plus London weighting). Medical examination. No housing provided. — Applications, suitably endorsed, giving the names of three referees, to the Town Clerk, Town Hall, Haverstock Hill. N.W.3. Closing date 15th June, 1956. [239]

N.W.3. Closing date 15th June, 1956. 12391

THE TIMBER DEVELOPMENT ASSOCIATION
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[2390]

ARCHITECTURAL APPOINT-MENTS VACANT—cont.

QUALIFIED Architectural Assistant required. — Write full particulars to T, Mitchell & Partners, 20, Bedford Square, W.C.1. [2398

ARCHITECTS with London practice require Assistants with sound knowledge of construction. Large and small projects of wide variety.—Reply Box 1894, c/o A. & B.N.

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SCHERRER & HICKS, 19 Cavendish Square, W.1. (Tel.: Museum 1105) require immediately a number of architectural assistants with imagination and initiative. The work is varied and covers Research Laboratories, Offices, Housing and Schools. Five-day week. Salary by arrangement.

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—Please write in detail to Box 2090, c/o A. & B. N. [2381]

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TWO Senior Architectural Assistants. Varied practice, mainly schools. Salaries according to ability and experience.—Full details in writing please to R. A. Boxall, A.R.I.B.A., \$1 Moulsham Street, Chelmsford.

HACKNEY BOROUGH COUNCIL require Architectural Assistants and Junior Architectural Assistants and Junior Architectural Assistants for extensive programme of new housing, public baths, libraries and other public buildings, Appointments may be in Grades APT I (£539-£675) or APT III (£640-£765), singly or combined, plus London allowance of up to £30 p.a. Candidates must be Probationers or Students of R.I.B.A. Grade and commencing alary according to training, qualifications and experience. Application form obtainable from the Town Clerk, Town Hall, Łondon, E.8. returnable by 18th June, 1956, quoting reference H.2.

QUALIFIED Assistant required immediately.— Apply in writing, stating age, details of practical experience and when available to S. P. Jordan, A.R.I.B.A., M.S.I.A., Dip.TP., 1 King's Road, Sloane Square, S.W.3.

SITUATIONS VACANT

A.M.I.Mcch.E. with some electrical and building constructional experience, or A.M.I.C.E. with mechanical and electrical experience, required for interesting position in the Middle East. Age proferably 30-35. Basic salary according to experience plus free furnished quarters 1nd living allowance.—Apply with full details to Box 2209, c/o A. & B. N. [2396]

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- BEAUTIFUL DECORATIVE FINISH

- SIMPLE FIXING
- HYGIENIC SURFACE
- NON-COMBUSTIBLE



Typical Installation of "Supacoust" Tiles

Performance

Frequency (Cycles per second)	125	250	320	400	500	1000	2000	4000
SUPACOUST TILE with glassfibre quilt backing fixed on timber battens	0.25	0.55	0.65	0.65	0.60	0.35	0.25	0.20
SUPACOUST TILE with 1in wood wool backing	0.10	0.30	0.45	0.55	0.60	0.30	0.40	0.25
SUPACOUST TILE fixed direct on plaster board	0.15	0.10	*	*	0.20	0.35	0.50	0.60
SUPACOUST TILE left open at back	0.90	0.35	*	*	0.75	0.60	0.15	0.25

* Not tested at this frequency.

Sizes

Standards (supplied from stock) 24in x 24in x §in 24in x 12in x §in 30in x 15in x §in Other sizes to specification.

Weight

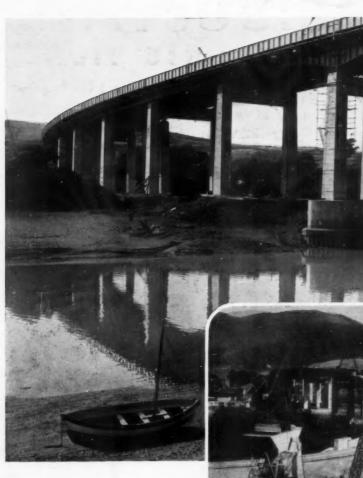
Standard Tiles: 23lb per sq. ft.

If Vermiculite Plaster is used: 1½ — 2lb per sq. ft.

"Supacoust" tiles can be fixed to any surface by screwing. It is normal to fix only at the corners so that support for the standard panels is required only at 2ft 0in centres of say, 3in x 1in timber battens. Quotations will be gladly given for either (a) Supply to the Site only, for fixing by the General Contractor, or (b) Supply and fixing as a Subcontract.

PETRADENE LTD.

23-39 BENDON VALLEY, GARRATT LANE, LONDON, S.W.18 Tel. BATtersea 2497/8/9



NEW BRIDGE AT BRITON FERRY, GLAMORGAN

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